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MONTHLY WEATHER REPORT

JANUARY-MARCH

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Errata to M.W.R. for the quarter January to March 1965.

JANUARY 1965 : SURFACE DATA

Page	Item/Station	Hour	Column	For	Read
3.	Table I : Sub-division				
Table II	3.South Assam	-	2	17.7	-17.7
4	North Lakhimpur	-	1	Nroth Lakhimpur	North Lakhimpur
"	Sibsagar	-	24	Blank	29
5	Jamshedpur (PBO)	-	10	0	0.6
"	Bahraich	-	10	0	8.2
6	Ballia	-	1	Not clear	Ballia
"	Varanasi	-	12	17.0	-17.0
"	Ambala	-	17,18	(a) (b) 5.4, 4.9	(b) (c) 5.4, 4.9
"	Ambala	-	29	0 a	0
"	Bhatinda	-	14	13	3
"	New Delhi (Safdarjung)	-	16	Blank	0
7	Jodhpur	-	19	-4.3*	-4.3
"	Barmer	-	5	5,17	17
"	Dholpur	-	4	30.6	30.0
8	Bhira	-	4	35.5	36.5
"	Ozar	-	18	(m) 7.4	(n) 7.4
"	Foot note	-	-	-	Add '(n) Mean of 17 days'
"	Foot note	-	-	(m) Total for 18 days.	(m) Total or mean of 18 days.
9	Buldana	-	22	0	2
"	Nidadavole	-	8	14.2	15.2
"	Ongole	-	8	17.5	17.9
"	Madurai	-	2	(b) 30.1	(b) 30.1
"	Pamban	-	2	29.9	28.9
10	Palayankottai	-	5	71,8	7,18,19
"	Belgaum (Samra)	-	4	Not clear	30.0
"	Amini	-	18	2.9	2.9(i)
"	Mukteswar (Kumaon)	-	16	0.6	-0.6
11	Kodaikanal	-	4	19.7	19.0
"	Katmandu	-	6,8	1.4,-2.7	1.6,2.5
"	Konar	-	5	21,2	21,22
Table III					
13	Nancowry	0830	13	5.1	3.1
14	Dubri (Rupsi)	0830	26	6	0
15	Contai	0830	5	1016.8	1016.3
"	Jharsuguda	1730	21	Blank	1
16	Chandbali	1730	22	0	10
"	Bolangir	0830	3	,,	190
"	Bolangir	1730	4	1011.0	1013.8
"	Bhubaneshwar	0230	1	Not clear	Bhubaneshwar
"	Bhubaneshwar	1130	28	0	2
"	Hazaribagh	0830	1	Not clear	Hazaribagh
"	Jamshedpur (PBO)	0830	11	6	68
"	Jamshedpur (PBO)	1730	10	2.6	12.6
"	Jamshedpur (PBO)	2330	9	11.5	11.3
17	Sabaur	0830	25	1	11
"	Sabaur	1730	22	9	0
"	Hardoi	1730	22	2	3
18	Gorakhpur	0830	7	14.7	14.6
"	Allahabad (Bamhrauli)	1730	8	14.9	15.9
16	Phulbani	1730	4	1018.8	1011.8

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Page	Item/Station	Hour	Column	For	Read
19	Aligarh	1730	4	1015.2	1015.7
"	Pathankot	0530	2	not clear	0530
"	Pathankot	1130	5	932.9	982.9
"	Ambala (PBO)	0530	4	1011.5	1016.5
"	Ambala (PBO)	1430	4	not clear	1015.6
"	Ambala (PBO)	2030	5	984.	984.1
"	Ambala (Aerodrome)	0530	3	27	274
20	Ambala (Aerodrome)	2330	15	7.0	7.3
"	New Delhi (Safdarjung)	1430	11	49	40
"	Palam (Aerodrome)	0230	2	0930	0230
"	Palam (Aerodrome)	0230	5	984.7	989.7
"	Palam (Aerodrome)	1430 & 2030	1	Blank	(R), (R)
"	Palam (Aerodrome)	2330	4	10 7.9	1017.9
"	Leh	0830	6	+3.2	delete
21	Bikaner (PBO)	0530	13,28	1.0, 1	1.5, 0
"	Jaisalmer	0830	17	0	2
"	Pilani	0830	9	4.3	4.4
"	Alwar	0830	9	8.3	8.4
"	Jaipur (Sanganer)	0830	26	3	1
"	Jaipur (Sanganer)	1130	26	1	3
"	Jaipur (Sanganer)	1430	15	9.6	9.0
22	Bhilwara	0830	10,22	10,9,3	9.5, 1
"	Bhilwara	1730	10	20.9	10.9
"	Udaipur	1730	18	4	6
"	Jhalawar	0830	12,18	+ .1, 10	+11, 16
"	Gwalior	0230	15	Not clear	1.2
"	Sheopur	1730	8	5.6	15.5
"	Shivpuri	1730	4	1 14.4	1014.4
"	Ratlam	0830	17	0	5
"	Ratlam	1730	17	5	1
"	Bhopal (Bairagarh)	0230	4,7	2016.5,15.7	1016.5, 15.0
23	Bhopal (Bairagarh)	2330	11	47	46
"	Rewa	1730	8	Not clear	15.2
"	Raigarh	0830	16	Blank	0
25	Jamnagar (Aerodrome)	0530	3,4	23,1014.9	20,1014.6
"	Jamnagar (Aerodrome)	0830	4	1016.8	1016.5
"	Jamnagar (Aerodrome)	1130	4	1017.6	1017.3
"	Jamnagar (Aerodrome)	1730	4	1013.8	1013.5
26	Ratnagiri	1730	9	9.0	19.0
"	Panjim	0830	8	.5	18.5
"	Dabolim (Naval Air Stn.)	0830	5	008.7	1008.7
"	Malegaon	1730	4	1012.4	1011.5
"	Ozar	1130	11	3	35
"	Poona	1430	9	1.10	11.0
27	Kolhapur	0530	17	4	0
"	Kolhapur	0830	17	5	0
"	Kolhapur	1130	17	0	4
"	Kolhapur	1730	17	0	5
"	Amraoti	0830	9	9.1	8.1
"	Akola	0830	4	10 7.2	1017.2
"	Bramhapuri	1730	7	26.9	26.0
"	Pusad	0830	7	11.6	16.6
28	Visakhapatnam	1430	11	48	46
"	Khammam	1730	27	27	7
29	Kurnool	0830	6	+0.2	+0.8
"	Salem	0830	12,14	+1.0, -6	-6, +1.0
*25	Jamnagar (Aerodrome)	2330	4	1016.1	1015.8

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Page	Item/Station	Hour	Column	For	Read
30	Pamban	0830	6	+0.2	+0.3
"	Mangalore (Bajpe)	2330	14	+0.1	..
"	Mangalore	0830	14	..	+0.1
"	Belgaum	0830	6	-2.3	-0.3
"	Gadag	0530	3	,,	650
"	Gadag	0830	3	650	,,
31	Shimoga	1730	9	10.	10.1
"	Calicut	1730	5	1000.6	1009.6
"	Palghat	0830	5	002.9	1002.9
"	Fort Cochin	0830	5	013.3	1013.3
"	Alleppey	0830	18	3	31
"	Trivandrum	0530	11	89	79
32	Dalhousie	0830	5	80 .4	801.4
"	Simla	0830	5	743.0	783.0
"	Nainital	1730	7	Not clear	7.9
"	Katmandu	0830	11	9.2	92
"	Katmandu	1130	11	5.2	52
"	Katmandu	1730	11	6.4	64
"	Lachen	0830	11	5.2	52
33	Sonepur	0830	7	Not clear	19.5
"	Dadeldhura	1130	28	1	0

Tables IV to VI : Upper air data

Page	Station	Time in IST	Height in Km	Entry under column	Existing entry	Correct entry
37	Agartala	0530	4.5	v & D	14.1 & 258	13.9 & 277
38	Ambala	1130	6.0	V	17.3	17.0
39	Bahraich	1730	0.3	D	384	284
39	Bangalore	1130	3.0	D	083	078
39	Bangalore	1130	3.6	D	078	083
40	Bhopal	0530	4.5	V	10.1	10.0
41	Bhuj	2330	1.5	v	0.6	0.9
41	Bhuj	2330	3.6	D	268	266
41	Bikaner	0530	5.4	v	15.5	15.6
41	Calcutta	0530	3.6	D	249	291
41	Calcutta	0530	7.2	V	61.9	19.9
41	Calcutta	1730	0.15 a.g.	v	0.5	2.5
42	Dibrugarh	1130	3.6	D	280	220
42	Dibrugarh	1130	4.5	D	220	285
43	Goa/Dabolim	Remarks at the base pertain to station Goa/Dabolim.				
44	Gwalior	1130	0.3 a.m.s.l	v	1.4	1.3
46	Jharsuguda	1730	7.2	v	17.5	17.9
46	Jodhpur	2330	4.5	D	228	282
47	Madras	1130	0.6	V	5.6	5.8
49	Port Blair	2330	3.0	D	005	035
49	Siliguri	0530	0.3 a.m.s.l	v	2.3	3.2
49	Tiruchchirappalli	0530	5.4	v	1.8	1.7
50	Vengurla	0530	0.9	v	8.7	3.7
51	Veraval	1730	7.2	D	251	261
52	Ahmedabad	1730	16.2	v	0.5	40.5
52	Allahabad	1730	16.2	v	52	52.0
52	Bangalore	0530	10.5	D	53	258
52	Bhuj	0530	10.5	V	8.0	18.0
52	Bombay	0530	14.1	v	29.0	29.1
52	Bombay	0530	16.2	V	9.3	19.3
52	Bombay	1130	10.5	v	2.7	24.7
52	Bombay	1130	16.2	v	3.2	31.2

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Page	Station	Time in IST	Height in gpkm	Entry under column	Existing entry	Correct entry
52	Bombay	1730	-	Hour	173	1730
52	Bombay	1730	10.5	Ht.	0.5	10.5
53	Trivandrum	1730	18.0	n	18	17
RADIOSONDE DATA						
55	Bangalore	00 GMT	40 mb	Min. Temp	202	203
55	Bombay	00 GMT	600 mb	Mean Temp	272	272.9
58	Ahmadabad	12 GMT	80 mb	Ht. gpm	17873	17803
58	Bangalore	12 GMT	60 mb	Ht. gpm	19543	19533
58	Bombay	12 GMT	175 mb	n	31	27
58	Bombay	12 GMT	125 mb	n	27	26
58	Bombay	12 GMT	100 mb	n	26	25
58	Bombay	12 GMT	80 mb	n	25	16
60	Visakhapatnam	12 GMT	100 mb	Min. Temp	194	191

FEBRUARY 1965 - SURFACE DATA :-

Page	Item/Station	Hour	Column	For	Read
61	Chief features first line	-	-	Spells good of	Spells of good
Table I: Sub-division					
63	7 Bihar Plateau	-	9	1.4	1.0
63	20 Konkan (Including Goa)	-	-	Konkan	Konkan (including Goa).
Table II					
64	Tezpur	-	3	-0.5(d)	+0.5
"	Golaghat	-	11	53.8	53.8
"	Chaparmukh	-	21	Blank	0
"	Jalpaiguri	-	5	1	11
65	Ballia	-	13	Blank	0
66	Ambala (Aerodrome)	-	12	-10.1	..
"	Patiala	-	12	..	-10.1
"	Leh	-	13	4.	4.2
"	Barmer	-	13,19	Blank, -1.8	0, -1.8**
"	Foot note	-	-	-	** Departure indicate relates to 1940 normal accepted provisionally.
"	Foot note	-	-	*Data not available.	* Data not reliable.
67	Munabao	-	1	Munabao (R)	Munabao
"	Guna	-	9	24	15
"	Nimach	-	9	15	8
"	Rajgarh	-	9	8	9,15
"	Sagar	-	9	9,15	22
"	Ratlam	-	9	22	8
"	Bhopal (Bairagarh)	-	9	8	9
"	Ujjain	-	9	9	8
"	Narsinghpur	-	9,28	8,9	9,0
"	Rajpur (Jhabua)	-	9	9	9,10
"	Chhindwara	-	9	9,10	16
"	Khandwa	-	4	34.0	34.7

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Page	Item/Station	Hour	Column	For	Read
67	Jabalpur		28	2	0
67	Raipur	-	16	-1.3	-1.8
"	Jagdalpur	-	5	26	26,28
68	Surat	-	17	9.9	9.6
"	Jamnagar (Aerodrome)	-	23	1	0
"	Bhira	-	5	27 16	27
"	Ratnagiri	-	5	15,16	16
"	Devgarh	-	5	15	15,16
"	Marmugao	-	18	12.9	12.9
"	Nandurbar	-	20(b)	1	0
"	Khandala	-	16	+0.3	-0.3
"	Jeur	-	3	+1.2	-1.2
"	Amraoti	-	13	.8	5.8
69	Visakhapatnam	-	20(a)	0	1
"	Ongole	-	8	18.0	18.9
"	Vellore	-	12	-0.6	-6.0
"	Tiruppattur	-	5	27.2	27
"	Kallakkurichchi	-	2	32.2	32.0
"	Madurai (Aerodrome)	-	9	2	25
"	Mangalore	-	7	0.1	-0.1
70	Mysore	-	3	+1.6	-1.6
"	Alleppey	-	12	-35.2	-35.1
"	Badrinath	-	-	Closed during winter months	Closed during winter months
"	Katmandu	-	26,8,23	25.2,2.6,-1.2,0	20.2,2.8,-1.0,2
"	Foot note	-	-	† less than 15 days	† less than 15 days hence no means published.
71	Jomosom	-	2	11 (d)	11.0 (d)
Table III					
74	Contai	0830	1	not clear	Contai
"	Sagar Island	0830	1	Sagar Islandd	Sagar Island
"	Sandheads	1130	7	33.1	28.1
76	Bhagalpur	2330	8	14.4	14.0
"	Baharaich	0830	1	not clear	Bah raich
"	Hardoi	0830	1	Ha doi	Hardoi
80	Gulmarg	0830	1	Gulmerg	Gulmarg
81	Erinpura (Jawai Dam)	-	-	-	Erinpura (Jawai Dam) station order is after Barmer.
83	Sidhi	0830	3	272	272*
"	Jabalpur	0830	12	+10	-10
"	Pendra	0830	17	Blank	1
84	Rajkot	1130	5	9 8.3	998.3
85	Dahanu	0830	5	1010.9	1011.9
"	Dabolim (Naval Air Station)	0530	3	206	52
87	Rentachintala	0830	1	Rentachintan	Rentachintala
88	Masulipatam	0830	5	1113.1	1013.1
"	Anantapur	1430	9	2.2	12.2
"	Madras (Minambakkam)	0830	12	+1	+1
90	Belgaum (Samara)	0530	1	Belgaum Samba	Belgaum (Samara)
"	Chitradurga	1730	9	14.7	14.1
91	Dalhousie	0830	12	..	0
92	Badrinath	0830	-	Closed during winter months	Closed during winter months

Page	Item/Station	Hour	Column	For	Read
92	Abu	0830, 1730	4,5,6	-	delete pressure data
94	Walungchung Gola	1730	7	-0.1	0.1
"	Gezing	1730	10	.7	9.7

TABLES IV TO VI : UPPER AIR DATA

Page	Station	Time in IST	Height in km	Entry under column	Existing entry	Correct entry
97	Agartala	1730	0.6	D	174	274
97	Agartala	1730	0.9	D	173	273
97	Agartala	2330	Surface	v	3.1	0.3
97	Ahmadabad	2330	4.5	v	10.1	10.0
100	Bhopal	0530	5.4	n	29	20
100	Bhubaneshwar	0530	7.2	D	180	270
100	Bikaner	0530	Surface	V	6.3	0.3
102	Gadag	2330	-	Time	2230	2330
102	Gadag	2330	5.4	n	14	13
105	Jaipur	0530	1.5	D	232	282
105	Jaipur	1730	1.5	D	200	290
105	Jodhpur	0530	0.3	D	045	043
107	Minicoy	1130	4.5	D	035	085
107	Nagpur	0530	0.6	D	041	046
112	Anantapur	0530	12.0	v	3.9	8.9
113	Nagpur	1130	12.0	n	-	4
113	Vishakhapatnam	0530	18.0	D	231	271
113	Veraval	1730	10.5	v	34.1	34.5
119	Minicoy	12 GMT	600 mb	Max. Temp	272	279
119	Minicoy	12 GMT	1000 mb	Dew Point	294.5	294.4
119	Minicoy	12 GMT	40 mb	Max. Temp	202	212
119	New Delhi	12 GMT	200 mb	Min. Temp	217	213
119	Port Blair	12 GMT	250 mb	Mean Temp	232.3	231.2
119	Port Blair	12 GMT	250 mb	Max. Temp	247	238
120	Vishakhapatnam	12 GMT	850 mb	Mean Temp	290.2	290.3

MARCH 1965 : SURFACE DATA

Page	Item/Station	Hour	Column	For	Read
Table II					
125	Gauhati	-	2	*	..
"	Dhubri	-	10	34.0	36.4
127	Agra (Aerodrome)	-	24	1	0
128	Ganganagar	-	12	17.0	-17.0
128	Kota	-	1	Kota (Aerodrome)	Kota
"	Kota Aerodrome	-	1	Kota	Kota (Aerodrome)
"	Chambal (Rawat Bhatta Dam)	-	2	34.6	32.9
"	Udaipur	-	2,3	32.9, ..	31.4, -0.3

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Page	Item/Station	Hour	Column	For	Read
Table II (Contd.)					
128	Jhalawar	-	2,3	31.4-,0-0.3	33.5, +0.5
"	Banswara	-	2,3	33.5, +0.5	34.6, ..
"	Rajgarh	-	1	Ratgarh	Rajgarh
"	Ratlam	-	1	Railam	Ratlam
"	Hoshangabad	-	2	34.0	34.8
129	Ambikapur	-	25	1	0
130	Poona (Aerodrome)	-	9	0,21	20,21
"	Kurnool	-	2	6.7	36.7
"	Anantapur	-	2	6.5	36.5
131	Tambaram (Aerodrome)	-	20(b)	9	0
"	Pal'ayancottai	-	1	Palanyancottai	Pal:ayancottai
"	Hassan	-	20(b)	10	0
"	Bangalore	-	20(b)	1	0
132	Katmandu	-	6,8	5.2,0	5.4, 0.2
133	Thikri	-	4	40.	40.6
"	Khudi Bazar	-	2,6	$25.3^{(i)}$, $14.1^{(i)}$	$25.3^{(1)}$, $14.1^{(1)}$
Table III					
134	Nancowry	1730	17	0	1
"	North Lakhimpur	1730	9	5.5	15.5
136	Malda	1730	8	13.4	18.4
"	Barrackpore (Aerodrome)	1730	9	17.2	16.2
"	Calcutta (Dum Dum)	2030	7	21.8	23.8
"	Sagar Island	0830	6	-1.0	+1.0
137	Puri	1730	9	22.3	22.2
"	Dhanbad	1730	5	989.5	979.5
138	Patna	1730	15	6.1	6.4
"	Gaya	0830	6	..	+1.6
"	Gaya	1130	6	+1.6	..
"	Lucknow (Amausi)	1130	4	1002.1	1012.1
139	Kanpur (Aerodrome)	0830	12	+6	..
"	Tehri	0830	11	88	78
"	Foot note	-	-	(c)Mean of 30 days.	(a)Mean of 30 days.
"	Foor note	-	-	(a)Mean of 28 days.	(c)Mean of 28 days.
140	Amritsar (Rajasansi)	1730	15	$10.1^{(c)}$	10.1
"	Foot note	-	-	(c)Mean of 24 days.	delete.
141	Bilaspur	1730	27	3	8
142	Jammu (Aerodrome)	2330	13	.7	2.7
"	Mahajan	1730	7	39.7	29.7
"	Erinpura (Jawai Dam)	0830	4,5,7,15	(c)	delete mark (c)
"	Erinpura (Jawai Dam)	0830	4	1012.3	1012.8
"	Munabao	0830	4,5,7,15	-	Read data with (c) mark.
143	Jaipur (Sanganer)	0530	7	1.64	16.4
144	Rajgarh	1730	4	1017.2	1007.2
"	Narsinghpur	0830, 1730	16	0,0	.., ..
"	Hoshangabad	1730	4	1007.5	1007.3
"	Rajpur (Jhabua)	1730	8	17.0	17.8

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Page	Station	Time in IST	Height in km	Entry under column	Existing entry	Correct entry
163	Dibrugarh	0530	1.5	D	089	098
163	Gadag	1730	9.0	D	296	269
164	Gadag	2330	0.15 a.g.	D	240	249
166	Jabalpur	0530	7.2	D	253	287
166	Jabalpur	2330	0.9	V	4.4	6.4
172	Vijaywada	1730	4.5	n	8	28
173	Asansol	0530	-	Time	0530	1730
173	Bombay	1730	Ht. in Km		8.0	18.0
177	Madras	00 GMT	200 mb	Min. Temp	201	214
177	Nagpur	00 GMT	70 mb	Mean Temp	202.3	202.1
177	Nagpur	00 GMT	400 mb	Max. Temp	266	263
177	Nagpur	00 GMT	250 mb	Min. Temp	221	225
177	Srinagar	00 GMT	500 mb	Ht. gpm	5665	5655
177	Srinagar	00 GMT	60 mb	Mean Temp	218.6	218.0

Page	Item/Station	Hour	Column	For	Read
Table III (Contd.)					
147	Vengurla	0530, 0830	28	Blank	0, 0
"	Vengurla	1130	5	1012.6	1012.0
148	Miraj	0830	14	0.8 (a)	+0.9
149	Masulipatam	1730	13	1.4	1.4 (a)
"	Ongole	1730	13	1.2	1.2
150	Hyderabad (Begampet)	0830	12	-1.5	-15
"	Vellore	0830	7	24.1	24.6
"	Cuddalore	1130	4	1002.8	1012.8
151	Kanniyakumari	0830	5	100 .2	1008.2
152	Fort Cochin	1730	7	9.1	29.1
"	Cochin (Naval Air Station)	0230	7	5.6	25.6
153	Alleppey	0830	6	+0.7	+0.9
"	Alleppey	0830	12	1	-1
"	Trivandrum (Aerodrome)	0830	20	Blank	3
"	Minicoy	1430	11	6	65
154	Bokaro	1730	11	28	29
"	Daroi	0830	3	-	Delete Height.

TABLES IV TO VI : Upper Air Data

Registered No. MH-75

INDIA WEATHER REVIEW, 1965

Monthly Weather Report

January

Published by authority of the Government of India

Chief features: —

(i) Movement of four western disturbances across northwest India causing spells of precipitation there; and

(ii) An unusual spell of good rains over Gujarat State, the central parts of the country and the north Peninsula in the early part of the month.

Four western disturbances affected the northern parts of the country during the month. The first disturbance lay over the southern divisions of West Pakistan on 1st. It moved away slowly northeastwards across the Western Himalayas by 5th. Under its influence, there was good precipitation over the Western Himalayas during the period 2nd to 5th. A few light showers also occurred in the plains of northwest India According to press reports, heavy snowfall was experienced in Mussoorie, Tehri Garhwal and Nagateeba ranges.

After the passage of the above western disturbance, dry weather prevailed over northwest India for about two weeks. Later a fairly active western disturbance moved into the northern divisions of West Pakistan and adjoining Afghanisthan on 18th. Moving in an easterly direction, it continued to be active till 20th when it lay over Uttar Pradesh. Thereafter it weakened and moved away eastwards across Assam by 22nd In association with it, there was good precipitation over northwest India outside Rajasthan on 19th and 20th, Banihal recorded 7 cm of rain, Jammu and Dalhousie 6 cm each and Srinagar and Najibabad 5 cm each on 20th. According to press reports, landslides caused by heavy rains and snowfalls blocked the traffic on the Kotdwara-Joshimath and Jammu-Srinagar roads. The air services with Srinagar also remained suspended for at least three days. A few light showers also occurred in east Uttar Pradesh, and north Assam on 21st and 22nd.

The third western disturbance which followed immediately was feeble. It lay over Afghanistan on 21st and moved away eastwards across the extreme north of the country by 23rd. It caused a few falls of rain or snow in Jammu and Kashmir on 21st and 22nd. Banihal recorded 4 cm of rain on 21st. The last disturbance was also feeble and was over east Afghanistan and adjoining West Pakistan on 29th. It moved away eastward across Jammu and Kashmir by 31st causing a number of falls of rain or snow in Jammu and Kashmir on 30th.

A trough of low pressure which had developed towards the end of last month lay extending from northeast Arabian Sea to Rajasthan at the beginning of this month. It shifted southeastwards progressively and was extending from Laccadive area to southeast Madhya Pradesh on 6th. Thereafter it became unimportant. Under its influence, a spell of rainfall occurred in Rajasthan, Gujarat State, the central parts of the country and north Peninsula during the first week. The rainfall belt also extended to northeast India towards the end of the first week.

In association with another feeble upper air trough extending from the Gulf of Cambay to the central parts of Madhya Pradesh on 7th and 8th the rainfall activity over the central parts of the country continued till 9th. Buldana recorded 7 cm of rain on 9th. According to press reports, the unseasonal rains caused dislocation of road transport at many places in Saurashtra and damage to winter crops like cotton and wheat. Very heavy showers accompanied by large size hailstones were also reported to have occurred at a few villages in Buldana district and in Malegaon and Dhulia talukas, seriously damaging the standing crops. It was reported that at Deoghar village there was five inch thick layer of hailstones on the ground.

Another trough of low pressure extending from the extreme east central Arabian Sea off the Maharashtra coast to west Madhya Pradesh developed on 23rd and persisted till 28th. Under its influence a second spell of thunder showers occurred over Maharashtra State, west Madhya Pradesh and adjoining parts of Gujarat State and Rajasthan. Ujjain reported 2 cm of rain on 25th.

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The south Peninsula received a few showers in the first week of the month in association with the movement of two low pressure areas across the Comorin area. The first low pressure area which lay over the southwest Bay of Bengal on 1st moved away across Ceylon area by 3rd The second one appeared over the southeast Bay on 3rd and also moved away westwards across Maldive area by 7th. Thereafter the weather remained mainly dry over the south Peninsula.

Night temperatures were below normal over northwest India. Uttar Pradesh and Gujarat State at the beginning of the month After 4th, they were below normal or normal over these areas till 10th. Thereafter, the night temperatures again became above normal and remained so on most of the days till the end of the month Over the central parts of the country also the night temperatures were above normal during the first fortnight except on 5th, 11th and 12th when they were below normal Over the peninsula they were generally above normal during the first 11 days and below normal towards the end of the month. Night temperatures over northeast India were above normal from 3rd to 7th and again from 19th to 22nd and below normal during the second week

The total rainfall for the month was in large excess in Gujarat State, the Konkan, Vidarbha and coastal and south Interior Mysore, in moderate excess in Madhya Maharashtra and Telangana and in slight excess in east Rajasthan. It was in slight defect in west Madhya Pradesh and Kerala, in moderate defect in Orissa, Punjab and north Interior Mysore and in large defect over the rest of the country outside south Assam, Sub-Himalayan West Bengal, Bihar Plains and Rayalaseema where there was no rain

Mean maximum temperature was above normal in the Bay Islands, north Assam, Sub-Himalayan West Bengal, Bihar Plains, Uttar Pradesh, Punjab, Rajasthan, Gujarat State and the Konkan and below normal in south Interior Mysore. It was normal over the rest of the country.

Mean minimum temperature was above normal in Rajasthan, west Madhya Pradesh, Gujarat State, Konkan and Marathwada and below normal in the Bay Islands and the Arabian Sea Islands. It was normal over the rest of the country.

Mean relative humidity in the morning was above normal in Rajasthan, Saurashtra and Kutch, Madhya Maharashtra, Telangana and north Interior Mysore and below normal in the Bay Islands and Kerala. It was normal over the rest of the country.

Mean cloud amount in the morning was above normal in the Bay Islands, west Madhya Pradesh, Gujarat and Maharashtra States, Rayalaseema and Interior Mysore and below normal in north Assam, Sub-Himalayan West Bengal, Bihar Plains, Uttar Pradesh and Punjab. It was normal over the rest of country.

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud amount for the 15 chief political divisions and the 32 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. I. S. T. of the date noted in the succeeding column; similarly the heaviest rainfall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. I. S. T of the date given in the succeeding column.

POONA 5,
The 25th September, 1965.

R. ANANTHAKRISHNAN,
for *Director General of Observatories.*

NOTE :—Description in respect of Himachal Pradesh is not included for want of normals.

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T	Relative humidity % 1730 hrs. I.S.T	Cloud 0830 hrs. I.S.T	Cloud 1730 hrs. I.S.T
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including NEFA, Nagaland, Manipur, Tripura)	4 4	22	23 8	9·2	84	66	1 9	1 9
	—15 5		+0 7	0	—1		—1 0	
2. West Bengal	0·3	3	26 4	12 5	71	54	1·3	1 6
	—11·3		+0 9	+0 5	—3		—0 4	
3. Orissa .	6 0	58	27 9	14 6	71	55	2 1	2 6
	—1 3		+0 3	—0 2	—2		+0 3	
4. Bihar	0 4	2	25 1	9·7	71	51	1 2	1 1
	—16 6		+1 1	—0 2	—2		—0 5	
5. Uttar Pradesh .	5 3	23	24 1	8·8	77	50	1 3	1 6
	—17·3		+1 5	+0 8	+1		—0 8	
6. Punjab (Including Himachal Pradesh and Delhi)*	21·6	52	22 2	7 0	81	55	2 2	2·6
	—20 0		+2 0	+0 9	+2		—0 6	
7. Jammu and Kashmir	41 4	41	7 5	—2 5	69	64	5 1	4 2
	—60 0		+0 2	—0 1	—2		0	
Sub-Division								
1. Bay Islands	10·2	22	30 1	20·9	64	69	4 2	4 0
	—35 3		+1 1	—1 1	—7		+0·8	
2. North Assam (Including NEFA)	6 7	32	24·0	9 7	86	69	1 9	1 7
	—14 3		+1 2	+0 2	—1		—1 5	
3. South Assam (Including Nagaland Manipur and Tripura)	0	0	23 4	7 9	79	60	1 8	2 3
	17 7		—0 7	—0 5	—1		—0 2	
4 Sub-Himalayan West Bengal	0	0	25·2	10 6	79	55	1 0	1·5
	—11·8		+1 4	+0 8	0		—0 5	
5. Gangetic West Bengal	0·4	3	26·7	13 2	68	54	1 4	1·6
	—11 1		+0 8	+0 5	—4		—0 3	
6 Orissa . .	6·0	58	27·9	14 6	71	55	2 1	2 6
	—4·3		+0 3	—0 2	—2		+0 3	
7 Bihar Plateau	1 2	6	25 3	9·8	67	46	1 5	1 4
	—17 5		+0 6	—0 5	—3		—0 3	
8 Bihar Plains .	0	0	24 9	9 6	74	56	1 0	0 8
	—16 1		+1·6	0	—2		—0 7	
9. Uttar Pradesh (East)	1 7	9	24 4	9·1	78	50	1·3	1 3
	—18·2		+1 3	+0 8	0		—0 6	
10. Uttar Pradesh (West)	10 3	39	23 6	8 2	76	51	1 3	2 0
	—16 0		+1 9	+0 9	+4		—1 0	
11. Punjab (Including Delhi)	21 6	52	22 0	7 0	81	55	2 2	2 6
	—20 0		+2 0	+0 9	+2		—0 6	
12. Himachal Pradesh	37·7	..	24·2	4·0	85	54	1 1	1 4
	.				..		.	
13. Jammu and Kashmir	41 4	41	7 5	—2 5	69	64	5·1	4 2
	—60 0		+0 2	—0·1	—2		0	
14. Rajasthan (West)	1·9	28	26 3	10·1	74	36	2 1	2 3
	—5·0		+3 4	+2 5	+8		—0 1	
15 Rajasthan (East)	9 3	121	25 7	10·5	69	38	1 7	2 9
	+1·6		+1 7	+1 7	+13		—0·1	
16. Madhya Pradesh (West)	9·4	85	26 5	11 2	65	39	2 5	2 7
	—1 7		+0 8	+1 3	+3		+0 6	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—(*contd*)								
8. Rajasthan .	5 6	77	26 0	10·3	71	37	1 9	2 7
	—1 7		+2 5	+2 1	+11		—0·1	
9. Madhya Pradesh	8 5	59	26 4	11 3	68	42	2 2	2·5
	—6 0		+0 5	+1 0	+2		+0 4	
10 Gujarat State (Including Diu, Daman, Dadra and Nagar Haveli)	7 5	441	29 7	15 0	66	44	2 0	1 8
	+5 8		+1 6	+2 4	+9		+0 7	
11. Maharashtra State (Including Goa)	12 4	258	29 6	16 0	65	42	2 1	2 4
	+7·6		+0 2	+1 0	+4		+0 6	
12. Andhra Pradesh	3 6	49	29 5	17·8	77	51	2 6	2 7
	—3 7		—0 1	+0·6	+3		+0 3	
13 Madras State (Including Pondicherry)	7 9	22	29·2	20 7	77	61	3 8	4 0
	—27 5		—0 2	+0·2	—4		+0 5	
14. Mysore . .	4 8	130	29·0	16 8	71	41	2 8	2·8
	+1 1		—0 7	+0 3	+4		+0 8	
15. Kerala .	12 5	75	31 6	21 8	69	61	2·9	3·2
	—4 2		+0 4	—0 5	—6		+0 3	
Sub-Division—(*contd*)								
17 Madhya Pradesh (East)	7·2	39	26 3	11 3	71	46	2 0	2·3
	—11 5		+0 2	+0 7	0		0	
18. Gujarat Region (Including Daman, Dadra and Nagar Haveli)	8 4	420	31 2	15 2	64	37	1·8	1 8
	+6 4		+1 4	+2 9	+2		+0 5	
19. Saurashtra and Kutch (including Diu)	7·0	437	28·9	14·9	68	48	2 1	1·9
	+5 4		+1 7	+2 0	+12		+0 8	
20 Konkan . . (Including Goa)	7 5	375	30 3	19 7	70	65	1·9	1·5
	+5 5		+1·3	+1 2	+2		+0·4	
21. Madhya Maharashtra	4 1	146	30·0	14·1	63	34	2 1	2·8
	+1 3		—0·2	+1 0	+7		+0 7	
22 Marathwada .	1 7	24	29·7	15 1	55	30	2·0	2·5
	—5 5		0	+1 4	+3		+0·4	
23. Vidarbha .	30 3	316	28 5	15 1	66	39	2·3	2·5
	+20 7		—0 4	+0 9	+5		+0 6	
24. Coastal Andhra Pradesh	1 9	21	29 2	18 8	79	61	2 9	2·8
	—7 1		+0·2	+0 4	+2		+0·3	
25 Telangana .	8 0	148	29 7	16 4	76	42	2 2	2·3
	+2 4		—0 2	+0 8	+6		+0 1	
26 Rayalaseema .	0	0	30·2	18·0	73	44	2 4	3·0
	—5 9		—0·8	+0 5	+3		+0 6	
27 Madras State . (Including Pondicherry)	7 9	22	29 2	20·7	77	61	3 8	4 0
	—27·5		—0 2	+0·2	—4		+0 5	
28. Coastal Mysore	7·0	292	32 3	20·1	71	57	2 5	2·5
	+4 6		+1 0	+0·1	0		+0·4	
29 Interior Mysore North	2 8	64	28 9	16·9	67	37	2·5	2·9
	—1 6		—1 0	+0 8	+6		+0 9	
30. Interior Mysore South	5·5	157	27·7	15·4	76	37	3 3	2·9
	+2·0		—1·1	+0·1	+5		+0 8	
31. Kerala .	12 5	75	31·6	21·8	69	61	2·9	3·2
	—4 2		+0·4	—0·5	—6		+0·3	
32. Arabian Sea Islands	0 3	1	30 8	22·1	79	65	2·7	3 2
	—31 3		+0·7	—1 1	+5		—0·1	

NOTE —The entries in the second line for each division and sub-division indicate departures from normal. *Data of Himachal Pradesh not included.

TABLE 11—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—JANUARY, 1965 (PAUSA 11—MAGHA 11, 1886 SAKA)

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No of rainy days (0·5 mm or more)		Wind speed, km per hour			Weather phenomena—No of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Greatest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm)	Precipitation (3·0 mm or more	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Local squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	28 3	.	30 0	9	21 7	..	20 0	3	0	21 2	.	20 6	12	1	.	14·8	10 6		0	2	0	0	0	0	0	0	0	0	0
Long Island	28 4		29 2	22	21 1	..	18 2	4	12 4	17 0		12 8	5	2		6 4	4 5		0	2	0	0	0	0	0	0	0	0	0
Port Blair	30 1	+1 1	31 3	29	20 9	−1 1	17 7	23	10 0	10 2	−35 3	8 8	16	1	−1 3	9 2	7 2	−6 5	1	2	0	0	0	0	0	0	0	0	0
Car Nicobar	29 1		29·6	30	23 6	.	18 8	7	5 0	3 0		3 0	14	1		10 0	7 2		0	1	0	0	0	0	0	0	0	0	0
Nancowry	31 7	.	32 9	31	23 9		22 7	8	0 2	2 0	.	1 6	31	0		0 4	0 1		2	0	0	0	0	0	0	0	0	0	0
Kondul					25 3	.	23 1	10	2 0	10·1	..	8 0	1	1	.				0	1	0	0	1	0	0	0	0	0	0
North Assam (Including NEFA																													
Pasighat	22 5		25 7	31	10 9	.	7 4	2	11 2	37 4	.	20 2	5	3		8 1	13 1		0	4	0	0	1	0	0	0	0	0	0
Dibrugarh (Mohanbari)	23 4	+1 8	25 6	31	7 0	−1 1	3 5	1	0 3	12 0	−29 7	8 4	6	2	−1 7	4 1	1 9	−0 2	0	2	0	0	0	3	0	0	0	0	0
Digboi	22 6		24 8	31	9 3		6 5	1,3	2 6	17 0		10 1	5	2					0	3	0	0	0	0	0	0	0	0	0
Nroth Lakhimpur	23 2	+0 4	25 6	26	7 6	−1 3	4 8	1	1 9	24 2	−14 9	17 2	6	2	−1 3	4 0	2 2		0	4	0	0	1	6	0	0	0	0	0
Sibsagar	23 7	+2 3	26·1	21	10 2	+0 4	6 6	1	0	7 8	−22 9	4 0	4	2	−1 5	2 4	1 6	−0 2	0	2	0	0	0		0	0	0	0	0
Gohpur	22 6		25 7	13	8 9		4 8	7	0	16 6		16 6	5	1		3 6	2 6	.	0	1	0	0	0	26	0	0	0	0	0
Majbat	24 3	.	26 6	26	0 1		6 6	5	0	10 5	.	10 5	5	1	.	3 9	2 3	..	0	1	0	0	0	0	0	0	0	0	0
Jorhat (Aerodrome)	23 6	.	26 0	21	9 9	..	7 2	1	0	6 4		4 6	4	1	..			.	0	2	0	0	0	18	0	0	0	0	0
Tangla	25 5	.	26 8	20,21, 22	9 0	..	7 3	3	0	0		0		0	.	1 5	0 9		0	0	0	0	0	0	0	0	0	0	0
Tezpur	24 2	+1 0	26 2	21	12 0	+0 6	10 1	1	0	9 2	−5 5	9 2	5	1	−0 5	4 5	3 3	+0 6	0	1	0	0	0	0	0	0	0	0	0
Golaghat	24 1		26 6	26	11 0		7 4	9	0	0		0		0					0	0	0	0	0	0	0	0	0	0	0
Rangia	25 3		27 1	25,26	10 5		8 4	9	0	0		0		0		5 4	2 9	.	0	0	0	0	0	1	0	0	0	0	0
Chaparmukh	25 4		27 0	21,31,	12 5				(a) 0	0		0		0		(a) 5 2	3 2		0	0	0	0	0	0	0	0	0	0	0
Goalpara	25 6	..	27 6	31	9 8	..	5 5	8	0	0	..	0	0	0		2 3	1 4		0	0	0	0	0	0	0	0	0	0	0
Gauhati	23 7	0	25 0	,21,27					.	0	−9·7	0	0	0	−1 1				0	0									
Gauhati (Bhorjor)	24 4	+0 7	26 2	31	10 1	+0 7	7 1	8	0	0	−9·7	0	0	0	−1·1	4 3	2 3		0	0	0	0	0	16	0	0	0	0	0
Dhubri (Rupsi)	24 9		26 4	31	9 5	.	7 0	9	0	0		0		0	.	5 9	3 8		0	0	0	0	0	1	0	0	0	0	0
Dhubri	23 9	+0 9	26 6	29	12 8	+1 0	10 4	7	0	0	−7 9	0	0	0	−0 8	7 0	5 3	+0 3	0	0	0	0	0	2	0	0	0	0	0
Lumding	25 5	+2 4	27 8	21	8 4	0	5 2	9	0	0	−14 2	0	0	0	−1 4	3 5	2 3		0	0	0	0	0	0	0	0	0	0	0
South Assam (Including Nagaland, Manipur, Tripura)																													
Tura	23 8	.	26 7	16	9 3	..	6 7	2,3 8	0	0		0		0	..	4 0	5 2		0	0	0	0	0	0	0	0	0	0	0
Haflong	21 2		21 4	31	9 6	..	7 1	9	0	0	−16 8	0		0	−1 1			.	0	0	0	0	0	0	0	0	0	0	0
Silchar (Kumbhirgram)	25 5		28 4	31	11 5	.	8 6	9	0	0	..	0		0		5 5	8 1	..	0	0	0	0	0	0	0	0	0	0	0
Silchar	22 7	−2 9	26 9	25	12 1	+0 8	9 5	9	0	0	−19 6	0		0	−1 5	2 7	1 2	−0 6	0	0	0	0	0	0	0	0	0	0	0
Imphal (Tulihal)	21 4	+0 3	23 6	30,31	2 4	−1 2	−0 7	2	0	0	−17 3	0		0	−1 7	6 1	3 8	−1 1	0	0	0	0	0	3	0	0	0	0	0
Kailashahar	26 1		28 4	31	9 7	..	5 8	9	0	0		0		0		2 5	1·5		0	0	0	0	0	3	0	0	0	0	0
Agartala	26 0	+0 5	28 7	17	9 3	−1 1	5 1	9	0	0	−17 2	0		0	−1 3	5 2	2 4	−1 4	0	0	0	0	0	2	0	0	0	0	0
Sub-Himalayan (West Bengal)																													
Baghdogra	24 9	+0 9	27 3	17	8 6	−0 1	6 0	12	0	0	−18 9	0	..	0	−1·6	6 5	4 1	+0 4	0	0	0	0	0	5	0	0	0	0	0
Jalpaiguri	24 9	+1 3	26 8	17,31	11 3	+0 7	9 4	8	0	0	−7 9	0		0	−0 7	3·4	2 2	+0 8	0	0	0	0	0	3	0	0	0	0	0
Cooch Behar	24 9		26 9	31	9 4		6 9	9	0	0	−6 6	0		0	−0 5	4 3	1 6	.	0	0	0	0	0	16	0	0	0	0	0
Balurghat	26 3	.	28 8	31	10 2		6 8	9	0	1 6	..	1 6	21	0	..	3 9	2 1		0	1	0	0	0	0	0	0	0	0	0
Malda	25 7	+2 1	27 9	22	11 8	+1 8	7 5	9	0	0	−13 7	0		0	−0 9	3·1	1 7	−2 6	0	0	0	0	0	0	0	0	0	0	0
Gangetic West Bengal																													
Berhampore	26 2	+1 4	28 6	22	12 1	+0 3	8 1	9	0	0	−9 1	0		0	−1 0	1 2	0 6	−1 2	0	0	0	0	0	23	0	0	0	0	0
Suri	26 3		28·9	29	12·5	.	7 3	9,10		0		0		0	..	.	4 1	..	0	0	0	0	0	0	0	0	0	0	0
Asansol	27·0	+1 6	29 9	22	11 3	−0 2	6 3	9	0	0	−17 0	0		0	−1 4	9 5	5 0	−0·3	0	0	0	0	0	1	0	0	0	0	0
Shanti Niketan	26 4		29 3	29	12·2		7 8	9	0	0 2	..	0 2	5	0	.	5 4	5 1		1	0	0	0	0	0	0	0	0	0	0
Krishnanagar	27 8	+2 2	29 8	22,29, 31	11 4	+0 5	6 5	9	0	0	−11 4	0	..	0	−0 9	2 0	1·5	−0 3	0	0	0	0	0	0	0	0	0	0	0
Purulia	26 0	−0 1	28·6	29	11 8	−1 0	7 7	11	0	0 4	−8 5	0 4	5	0	−1 1	2 2	3·8	+0 8	0	1	0	0	0	0	0	0	0	0	0
Bankura	27 3	..	30·5	29	13 0		8 8	9,10	0	0 8	−13 9	0 8	5	0	−1 2	3.2	2 0 (b)	..	0	1	0	0	0	0	0	0	0	0	0
Burdwan	27.4	+1 3	29 4	22					0	0	−11 4	0		0	−0·9	4 2	3 1	+1 2	0	0	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome)	25 8	..	27 8	28	12 4		8 2	11	0	0		0		0	..		.		0	0	0	0	0	7	0	0	0	0	0
Calcutta (Dum Dum)	26·9	+0 6	29 6	30	12 9	+0 3	9 2	11	0	0 6	−8 0	0 6	5	0	−1 1	4 7	2 2	−1 8	0	1	0	0	0	14	0	0	0	0	0
Calcutta	27 0	+0 6	29 4	29	14·2	+1 6	10 6	10	0	0 5	−8 9	0 5	5	0	−0 8	5 7	3 2	0	0	1	0	0	0	1	0	0	0	0	0
Midnapore	27·0	−0 1	29 6	22	13·8	+0·7	9·9	12	0	1 6	−10 3	1 6	5	0	−0 9	5 7	3·3	+0·7	0	1	0	0	0	0	0	0	0	0	0

(a) Total or Mean of 30 days.

(b) Mean of 29 days

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—JANUARY, 1965 (PAUSA 11— MAGHA 11, 1886 SAKA)

Sub-Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No of rainy days (2.5mm or more): Total in the month	Departure from normal	Wind speed, km per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No of days with: Precipitation (0.1 and 0.2 mm)	Precipitation 0.3 mm or more	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	25	27	28	29
Gangetic West Bengal— *(contd)*																													
Contai	26 8	0	30 1	30	14 8	+0 2	11 1	11	0	0	−13 5	0		0	−1 0	6 1	3 6	−0 6	0	0	0	0	0	5	0	0	0	0	0
Sagar Island	25 3	+0 3	27 9	30	16 5	+1 7	12 6	28	0 2	0 4	−10 0	0 2	5,6	0	−0 9	12 1	9 3	+0 4	2	0	0	0	0	18	0	0	0	0	0
Sandheads	27 7		32 9	2	20 2	..	14·7	14	0 8	3 3	−1 5	2 5	5	1	+0 5				0	2	0	0	0	0	0	0	0	0	0
Orissa																													
Baripada	28 4		30 9	29,30	12 7		8 7	11, 12	0	0 6		0 5	5	0		3 8	2 0		0	1	0	0	0	2	0	0	0	0	0
Jharsuguda	27 6	0	30 6	28,30	12 2	−0 5			0	3 3	−12 2	3 3	5	1	−0 3	7 2	5 5	−0 3	0	1	0	0	0	3	0	0	0	0	0
Keonjhargarh	25 6	.	28 4	27	.				0	1·2		1 2	5	0		4 6	3 5		0	1	0	0	0	1	0	0	0	0	0
Balasore	27 6	+0 4	30 1	29	13 3	−0 2	9 4	12	0	0 (d)	−13 5	0		0	−1 0	6 8	4 3	+1 4	0	0	0	0	0	0	0	0	0	0	0
Sambalpur	27 8	+0 1	30 5	31	12 4	−0 4	8 2	12	0	0						3 5	2 3	−1 1			0	0	0	0	0	0	0	0	0
Angul	27 4	−0 3	30 4	30	13 8	+0 4	10 0	11	3 4	8 6	−2 6	5 6	5	1	+0 1	6 5	1 7	−0 1	0	3	0	0	0	2	0	0	0	0	0
Chandbali	27 6	+0 2	29 4	18	14 4	0	10 5	10, 11	0	1 0	−4 1	1 0	5	0	−0 7	7 1	4 8	−1 0	0	1	0	0	0	0	0	0	0	0	0
Bolangir	27 5		30 6	30	13 9	.	10 0	12	5 8	11 0		7 0	5	2		5 6	3 1		0	2	0	0	0	2	0	0	0	0	0
Phulbani	25 6		28 7	30	11 7	..	7 3	12	11 4	27 5	..	21 2	5	2		3 0	1 2		1	2	0	0	0	4	0	0	0	0	0
Cuttack	29 3	+0 9	32 1	30	16 0	+0 6	12 3	13	6 1	9 3	+1 2	6 1	7	1	+0 3	4 1	2 3	+0 5	0	3	0	0	0	0	0	0	0	0	0
Titlagarh	28 1		30 5	30	14 4	.	9 8	12	4 8	24 4		15 8	5	2		3 0	1 7	.	0	3	0	0	0	0	0	0	0	0	0
Bhubaneswar	28 3	−0 3	30 9	30	15 8	−0 1	11 5	12	8 2	15 9	+4 3	8 2	7	2	+1 3	9 1	6 7	−2 4	0	2	0	0	0	1	0	0	0	0	0
Puri	27 3	+0 6	29 1	3	16 5	−1 1	13 4	11	0	0	+10 1	0		0	−0 6	10 3	8 1	−1 9	0	0	0	0	0	0	0	0	0	0	0
Gopalpur	27 8	+0 8	29 4	28	16 7	−0 1	14 5	3	0	10 0	+2 9	10 0	8	1	+0 5	11 0	8 3	+1 5	0	1	0	0	0	0	0	0	0	0	0
Koraput (R)	..	.																..											
Bihar Plateau																													
Dumka	26 3	+1 9	29 0	22	11 7	+1 2	7 2	9	0	0	−17 0	0		0	−1 3	6 6	3 3	+1 2	0	0	0	0	0	0	0	0	0	0	0
Daltonganj	25 3	+0 9	29 0	21	9 0	+0 4	4 2	11	0	0	−23 4	0		0	−1 9	3 3	2 8	−0 1	0	0	0	0	0	0	0	0	0	0	0
Hazaribagh	22 3	−0 4	24 9	21	9 3	−0 9	3 9	12	0	0	−22 6	0		0	−1 9	11 2	7 8	−0 6	0	0	0	0	0	0	0	0	0	0	0
Dhanbad	26 1	..	29 0	22,28 29	13 4		9 8	11	0	0		0		0		3 5	3 1		0	0	0	0	0	0	0	0	0	0	0
Ranchi	23 4	+0 3	25 7	30	11 5	+0 5	9 7	10, 12 13	0	0	−23 4	0	.	0	−1 8	4 2	3 0	−2 6	0	0	0	0	0	0	0	0	0	0	0
Ranchi Aerodrome	23 2		25 9	29	11 0		7 6	12	0	0	.	0		0		11 2	8 2		0	0	0	0	0	0	0	0	0	0	0
Jamshedpur	27 2	+0 3	30 4	29	11 1	+0 4	6 9	10	0	1 2	−7 9	1 2	5	0	−0 9	4 7	2 5	+0 1	0	1	0	0	0	29	0	0	0	0	0
Jamshedpur(P B O)	26 6	..	29 4	28,29	11 9	.	7 5	10	0	2 0	.	1 4	5	0		5 9	3 4	.	0	2	0	0	0	0	0	0	0	0	0
Chaibasa	27 0	+0 8	30 0	29	11·4	+0 1	7 1	11	0	5 8	- 10 5	5 8	5	1	−0 4	3 1	2 2	+0·1	0	1	0	0	0	0	0	0	0	0	0
Bihar Plains																													
Motihari	23 9	+1·1	26 9	17				.	0	0 1	−11 8	0 1	21	0	−1 1	4 3	2 7	+0 3	1	0	0	0	0	0	0	0	0	0	0
Forbesganj	25 1		27 5	17	8 5	..	5 4	7	0	0	.	0		0		6 3	3 3	..	0	0	0	0	0	3	0	0	0	0	0
Darbhanga	25 0	+1 5	27 3	31	9 9	0	6 8	9	0	0	−11 2	0		0	−1 0	2 9	2 0	−0 3	0	0	0	0	0	0	0	0	0	0	0
Muzaffarpur					.					0	−13 2	0		0	−1 1				0	0	0	0	0	0	0	0	0	0	0
Chapra	24 8		27 2	29	11 5		8 2	9,10	0	0	−14 5	0		0	−1 3	3 0	2 4		0	0	0	0	0	5	0	0	0	0	0
Purnea	25 2	+1 5	27 8	30	6 9	−1 8	3 5	9	0	0	−10 4	0		0	−0 8	6 1	2 9	1 0 6	0	0	0	0	0	0	0	0	0	0	0
Patna	25 1	+2 3	27 9	17	11 2	+0 6	7 6	8	0	0	−15 0	0		0	−1·3	5 8	5·5	+2 0	0	0	0	0	0	2	0	0	0	0	0
Patna Aerodrome	24 3	..	26 8	29	8 9		5·4	9	0	0	.	0		0	.	9 2	4 1	.	0	0	0	0	0	1	0	0	0	0	0
Arrah	.							..	..	0	−17 0	0		0	−1 3	.		..	0	0						.		.	
Bhagalpur	25 9	+1 9	28 5	22,30	12 3	+0 5	9 3	11	0	0	−34 5	0		0	−1 8	8 0	5·3	+0 3	0	0	0	0	0	0	0	0	0	0	0
Sabaur	24 6	+1 3	27 8	17,31	7 9	+0 7	4 0	9	0	0	−19 7	0		0	−1 1	7 8	3 7	−1 3	0	0	.	0	0	0	0	0	0	0	0
Jamui	26·1	..	27 9	30,31	10 3	.			0	0		0		0	..	4 8	3 9	.	0	0	0	0	0	0	0	0	0	0	0
Dehri	25 0	.	27 8	28	12·0	..	9 3	11, 13	0	0	−17 3	0		0	−1 5	8 3	3 6	..	0	0	0	0	0	0	0	0	0	0	0
Gaya	24 9	+1 4	27·4	28,29	9·6	0	4 8	11	0	0	−18 3	0		0	−1 3	8 3	4 9	−0 2	0	0	0	0	0	0	0	0	0	0	0
Uttar Pradesh (East)																													
Kheri (R)		.						.			.	.		.				.	.		.		..		..		.	
Bahraich	24 1	+1·5	27 2	17	9 0	+0 6	5 5	9,10	0	8 2	−12 6	8 2	21	1	−0 6	6 4	3 9	+1 3	0	1	0	0	0	0	0	0	0	0	0
Nautanwa	24 8	.	26 6	16	4·9	..	1·2	27	0	4 6	..	4 6	21	1	.	1 0	2 0		0	1	0	0	0	0	0	0	0	0	0
Hardoi	23 7	+1 6	26 6	17	8 7	+0 2	5·4	9,11	0	0	−38 8	0		0	−2 8	7 6	5 3	+0 8	0	0	0	0	0	0	0	0	0	0	0
Gonda	23 9	+0 7	26 8	17	8 5	+0 8	4 5	10	0	0	−12·9	0	.	0	−1 2	5 4	1 1	-0 2	0	0	0	0	0	0	0	0	0	0	0
Lucknow	23 6	+0 3	28 0	28	9 3	+0·9	7 0	6	0	1 2	−18·1	1 2	3	0	−1 5	3 4	2 8	+0·7	0	1	0	0	0	2	0	0	0	0	0
Lucknow (Amausi)	24 2	+1·3	28 9	20	7 8	−0 2	4 3	11	0	1·2	−18 1	1 2	3	0	−1·5	5 4	6·5 (a)	.	0	1	0	0	0	0	0	0	0	0	0
Faizabad	24 6	.	27 0	17,25	9 1	.	5 1	11	0	0	..	0		0	.	4 6	2 3		0	0	0	0	0	5	0	0	0	0	0
Gorakhpur	24 6	+1 8	27 2	16,17	10 8	+1·6	7 4	8	0	0	−15 0	0	.	0	−1 3		.		0	0	0	0	0	0	0	0	0	0	0
Kanpur	24 1	+1 9	27 5	20	10 2	+2 6	5 7	6	0	0	−14 2	0	.	0	−1 4	11 1	6 5	+2 8	0	0	0	0	0	0	0	0	0	0	0
Kanpur (Aerodrome)	24·4	.	27 4	19	9 3	..	4 8	9,11	0	0 4	.	0 4	3	0	.	..	.		0	1	0	0	4	0	0	0	0	0	0
Sultanpur	25 1	.	27 5	21,30	8 9		5·4	12	0	0	.	0	..	0	.	4 7	3 3		0	0	0	0	0	0	0	0	0		0

(d) Total for 27 days

(R) Register not received.

(a) Mean of 30 days

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE RAINFALL AND WEATHER—JANUARY, 1965 (PAUSA 11—MAGHA 11, 1886 SAKA)

Sub-Division and Station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm or more)		Wind speed, km per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hour	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm)	Precipitation 0.3	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-1	20-2	21	22	23	24	25	26	27	28	29
Uttar Pradesh (East)—(*Contd.*)																													
Azamgarh	25.5		27.9	29,31	9.4		5.7	11	0	0		0		0					0	0	0	0	0	0	0	0	0	0	0
Fatehpur	24.8	+0.8	28.7	20	8.2	+0.2	5.0	3,12	0	0	−13.7	0		0	−1	8.5	4.1	+0.9	0	0	0	0	0	0	0	0	0	0	0
Fallia	24.9		27.5	29	7.6		4.5	11	0	0		0		0	.	5.5	2.9		0	0	0	0	0	0	0	0	0	0	0
Banda	24.9	.	30.5	15	9.5		6.4	11	0	0		0		0		2.0	0.9		0	0	0	0	0	0	0	0	0	0	0
Allahabad (Bamrauli)	25.5	+1.7	28.5	20	9.5	+1.1	5.8	12	0	2.8	−18.8	2.8	5	1	−0.1	5.9	1.6	−2.6	0	1	0	0	0	1	0	0	0	0	0
Varanasi ((Babatpur)	24.9	+1.7	27.7	29	8.8	−0.5	5.6	11	0	5.0	−20.5	5.0	3	1	−1.1	9.6	6.6	−0.1	0	1	0	0	0	0	0	0	0	0	0
Varanasi	24.6	+1.2	27.9	21	9.7	+0.8	6.0	11	9	1.8	17.0	1.8	3	0	−1.5	8.0	6.2	+2.7	0	1	0	0	0	0	0	0	0	0	0
Uttar Pradesh (West)																													
Mukhim	13.8	.	18.1	12	4.6		0.1	4											.		3	0	1	2	1	0	0	0	0
Tehri	21.0		24.4	25	4.8		2.1	9	2.2	36.2		27.5	20	2		1.5	0.8		1	2	0	0	0	5	0	0	0	0	0
Pelira Dun	20.8	+1.9	23.7	11	5.9	−0.8	2.5	8	0.2	27.6	−31.3	22.2	20	2	−1.9	5.3	5.0	+0.6	0	2	0	5	2	0	0	0	0	0	0
Mansiari				.					14.8	7.5		23.6	4	2		2.5	2.0		0	2	1	0	0	0	0	0	0	0	0
Roorkee	22.0	+1.8	24.8	17	6.6	+0.1	3.0	11	0	26.6	−15.8	20.8	20	2	−0.8	5.6	3.6	−0.7	0	2	0	1	3	0	0	0	0	0	0
Najibabad	22.5	.	25.9	16	5.0		1.3	9	0	51.5		51.5	20	1		3.3	1.7		0	1	0	1	1	0	0	0	0	0	0
Meerut	23.7	+2.6	26.8	2	7.6	+0.4	4.3	11		19.0	−12.7	11.0	20	2	−0.5		6.8		0	3	0	0	0	0	0	0	0	0	0
Bareilly	23.7	+2.1	26.5	17	9.7	+1.8	6.1	11	0	9.2	−15.9	5.2	4	2	+0.1	9.0	6.1	+3.7	0	2	0	0	1	6	0	0	0	0	0
Aligarh					8.9	+1.6	6.0	10	0	0	−11.7	0		0	−1.2	10.3	7.3	+2.0	0	0	0	0	0	2	0	0	0	0	0
Mainpuri	25.3	+2.4	29.0	20			.		0	0	−14.5	0		0	−1.3	6.1	3.2	+0.9	0	0	0	0	0	2	0	0	0	0	0
Agra	24.3	+1.7	28.5	20	8.9	+2.1	5.5	11	0	0	−12.9	0		0	−1.2	2.7	2.7	−1.6	0	0	0	0	0	0	0	0	0	0	0
Agra (Aerodrome)	24.6		27.9	19	8.0		4.5	9	3.8	7.6		7.6	3	1					0	1	0	0	0	3	0	0	0	0	0
Orai (R)																													
Jhansi	25.2	+0.7	28.5	2	9.8	+1.2	6.0	9	0	0.3	−13.4	0.3	3	0	−1.2	3.5	3.2	−0.3	0	1	0	0	0	0	0	0	0	0	0
Punjab (Including Delhi)																													
Pathankot	20.2	+1.8	23.3	16	5.4	−0.2	1.8	8	18.7	52.1	−40.1	40.9	20	3	−2.2				0	5	0	0	2	0	0	0	0	0	0
Bhuntar	17.0		21.9	19	1.7		−1.0	2,8	12.3	57.2		44.9	20	2		5.3	4.2		0	6	0	0	0	0	0	0	0	0	0
Amritsar (Rajasansi)	21.3	+2.4	26.2	15	3.5	+0.8	1.4	11	1.5	12.1	−25.0	7.6	19	2	−0.9	9.0	6.3	−0.4	0	2	0	0	1	1	0	0	0	1	0
Adampur (Aerodrome)	21.7		25.5	19	4.5		0.6	8,9	17.0	25.6		14.7	20	2		8.0			0	3	0	0	2	8	0	0	0	0	0
Ludhiana	22.5	+3.1	27.0	19	7.1	+0.6	3.6	9	0.8	21.0	−17.3	17.0	20	2	−0.7	3.3	4.1	+2.0	0	2	0	0	2	1	0	0	0	0	0
Ferozepore	21.1		26.0	15,19					1.0	1.0		1.0	20	0		3.7	3.0		0	1	0	0	0	0	0	0	0	0	0
Halwara (Aerodrome)	21.3		24.8	18	5.7	.	1.4		0	18.8		13.7	3	2		7.3			0	2	0	0	2	2	0	0	0	0	0
Chandigarh	21.6	+1.5	24.5	18,31	7.3	0	5.1	5	8.8	21.1	−34.9	13.7	20	2	−2.6				0	2	0	0	0	0	0	0	0	0	0
Ambala	22.3	+1.7	24.6	19	7.6	+1.3	4.6	12	22.2	29.4	−4.1	22.2	4	2	−0.5	(a) 5.4	(b) 4.9	+0.9	0	2	0	0	1	0	0	0	0	0	0
Ambala (Aerodrome)	22.0		25.0	2	6.5	.	2.9	10	14.4	23.1		15.4	4	2					0	2	0	0	2	1	0	0	0	0	(a) 0
Patiala	21.7	.	25.6	14	8.1	.	5.2	6	4.2	24.2	−13.4	20.0	20	2	−1.0	10.6	9.6		0	2	0	1	1	2	0	0	0	0	0
Bhatinda	22.8		27.4	18,19	6.5	.	1.4	7	0	3.4	..	3.4	13	1		1.4	1.8	..	0	1	0	0	0	0	0	0	0	0	0
Karnal	21.4	.	24.2	2	6.9		3.8	9	2.0	3.2		2.0	4	0	.	.	..		0	2	0	1	0	0	0	0	0	0	0
Hissar	23.4	+1.8	27.9	19	7.6	+2.4	3.4	7	0	4.0	−8.7	4.0	3	1	−0.4	6.2	5.6	+0.3	0	1	0	0	0	4	0	0	0	0	0
New Delhi (Safdarjung)	22.6	+1.5	25.8	19	8.6	+1.3	5.5	10	1.0	8.8	−16.5	3.9	3	2		15.6	10.3	+1.3	0	4	0	1	4	4	0	0	0	0	0
Palam (Aerodrome)	21.7	..	25.6	20	8.0	.	3.3	9	0	3.6		2.5	3	1	..		.		0	2	0	0	3	3	0	0	0	0	0
Himachal Pradesh																													
Mandi	20.9	+3.2	26.9	18	1.2	−2.5	0.5	10, 11, 13,	8.2	47.3	−34.7	37.2	20	2	−4.2	1.7	1.5	−0.7	0	2	0	0	0	11	0	0	0	0	0
Bilaspur	27.5	.	33.4	28	6.8		4.3	5	8.0	28.0		18.0	20	2	.	1.1	0.9	..	0	2	0	0	1	3	0	0	0	0	0
Jammu and Kashmir																													
Misgar (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras	..		.	.						1.2	−96.1	0.5	20	0	−9.6	..	.		3	2	2	0	0	0	0	0	0	0	0
Sonemarg			..	.	.	.			.	46.3	−215.3	21.5	21	4	−7.9	.	.		0	5	3	0	0	0	0	0	0	0	0
Leh	−0.3	+1.1	5.6	19,30	12.4	+0.9	−18.3	7		3.1	−6.6	2.6	4	2	+1.0	4.1	4.2	+2.4	0	2	2	0	0	0	0	0	0	0	0
Srinagar	1.4	−3.6	−6.5	29	−3.0	−0.4	−5.7	7	61.5	89.9	+16.2	53.2	20	5	−1.1	4.4	4.1	+0.6	0	6	8	0	0	2	0	0	0	0	0
Srinagar (Aerodrome)	1.3	.	6.1	23	−3.4		−6.6	14	32.0	65.0		38.1	20	5					0	5	12	0	0	3	0	0	0	0	0
Gulmarg	closed during winter months																												
Qazigund	1.6		6.9	20	−4.9	.	−12.0	10	67.1	165.8		89.2	20	7		0.8	1.0	..	0	9	7	0	1	10	0	0	0	0	0
Banihal	10.3		17.1	13	0.5		−3.6	5	66.6	152.5		71.7	20	7					0	8	5	0	2	0	0	0	0	0	0
Jammu	21.5	+3.1	24.8	15	7.9	−0.9	5.4	8	50.2	66.6	+1.8	58.0	20	3	−0.9				0	3	0	0	0	0	0	0	0	0	0
Jammu (Aerodrome)	20.1		23.2	16,19	8.6		1.4	6	45.6	66.3		56.0	20	3					0	3	0	1	2	0	0	0	0	0	0

(R)—Register not received.

TABLE 11—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—JANUARY, 1965 (PAUSA 11—MAGHA 11, 1886 SAKA)

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No of rainy days (2·5 mm or more)		Wind speed, kms per hour			Weather phenomena—No of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm)	Precipitation (0·3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Rajasthan (West)																													
Ganganagar	24 0	+3 6	28 8	15	6 2	−0 2	3 1	11	0	0	−15 1	0		0	−1 6	3 7	2 3	−0 8	0	0	0	0	3	0	0	0	0	0	0
Anupgarh (R) Mahajan	24 4		30 3	15					0	0	.	13 2	3	1		0	13 2		..	1	0	0	0	1	0	0	0	0	0
Churu	24 1		29 4	16	7 4		3 5	9	3 3	4 4		3 0	3	1		7 0	5 0		0	2	0	0	0	3	0	0	0	0	0
Bikaner	25 6	+3 7	31 4	13	8 1	+3 2	4 1	10	0	4 2	−2 7	4 2	2	1	+0 2	5 2	3 5	−1 3	0	1	0	0	0	1	0	0	0	0	0
Nagaur	26 1		31 0	15	10 1		5 1	8	0	1 0		1 0	3	0		5 7	6 1		0	1	0	0	0	0	0	0	0	0	0
Phalodi	26 4		31 9	16	9 5		6 0	6,8, 10	0	0	- 3 8	0		0	−0 3	10 0	6 9		0	0	0	0	0	0	0	0	0	0	0
Jaisalmer	26 4		32 5	16	10 9		6 6	7,20	0	0		0		0		10 0	8 4		0	0	0	0	0	0	0	0	0	0	0
Jodhpur	27 1	+2 5	31 8	13	12 8	+3 6	5 6	21	1 3	5 1	+1 3	3 7	2	1	+0 7	8 7	6 8	−4 3*	0	2	0	0	0	1	0	0	0	0	0
Barmer	28 6	+3 9	33 5	5, 17	13 5	+3 5	10 2	6	0	0	−4 6	0		0	−0 4	6 0	4 9	2 7*	0	0	0	0	0	0	0	0	0	0	0
Pilanpura (Jawai Dam)	28 1		32 4	12	11 8		7 9	9	5 1	17 1		11 0	2	2		1 6	1 2		0	2	0	0	0	0	0	0	0	0	0
Munabao*																				..				.	..	..		.	.
Rajasthan (East)																													
Pilani	24 0		28 0	14	6 3		1 5	5,7	0	0		0		0		8 4	6 7		0	0	0	0	0	2	0	0	0	0	0
Sikar	25 1		29 2	29	7 0		2 2	8,11	0	0		0		0		3 8	3 4		0	0	0	0	0	0	0	0	0	0	0
Alwar	24 2		28 5	19	9 9		6 3	5,7	0	0		0		0		3 6	1 8		0	0	0	0	0	1	0	0	0	0	0
Jaipur (Sanganer)	24 7	+2 1	29 6	13	9 8	+1 6	4 4	11	0 2	1 4	−9 8	0 8	2	0	−1 0				0	2	0	0	0	0	0	0	0	0	0
Dholpur	24 6		30 6	20	8 4		4 3	7	2 4	3 6		3 2	3	1		5 0	3 0		0	2	0	0	0	0	0	0	0	0	0
Ajmer	25 6	+3 0	30 6	1	9 3	+1 7	6 2	5	1 0	7 4	−2 0	2 8	4	2	+1 0	6 3	3 7	+1 1	0	3	0	0	0	0	0	0	0	0	0
Tonk	26 1		31 4	13	9 8		4 8	10, 11	2 2	2 8		2 8	3	1	.	6 1	4 6		0	1	0	0	0	0	0	0	0	0	0
Banswara	25 3		30 7	13	9 9		6 8	8	3 6	5 9		3 6	3	1	.	6 5	4 6		0	2	0	0	0	1	0	0	0	0	0
Kota	26 2	+1 1	31 2	13	12 4	+1 8	8 3	6	0	4 1	-1 7	4 4	3	1	+0 4	4 3	3 0	+0 9	0	1	0	0	0	0	0	0	0	0	0
Kota (Aerodrome)	25 5		30 0	13	12 2		8 4	6	0	4 4		4 4	3	1		7 7	5 9		0	1	0	0	0	0	0	0	0	0	0
Chambal (Rawat Bhatta Dam)	26 4		31 8	13	11 7		8 5	10	0	4 0		4 0	3	1		6 2	3 9		0	1	0	0	0	0	0	0	0	0	0
Udaipur	25 4	+1 1	30 8	13	9 8	+1 2	7 4	10	15 9	26 5	+21 4	18 3	3	2	+1 6	2 8	1 3		0	2	0	0	0	0	0	0	0	0	0
Jhalawar	26 7	+1 2	31 5	13	11 2	+2 4	8 0	11	0	7 0	- 0 1	7 0	3	1	+0 3	5 1	3 6	+0 4	0	1	0	0	0	0	0	0	0	0	0
Banswara	29 2		33 6	13	13 9		8 8	5	2 6	9 2		8 9	2	1	.	8 0	7 7		0	2	0	0	0	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	24 8	+1 9	29 2	19,20	7 8	0	3 5	8	0	3 0	−15 8	3 0	3	1	−0 5	8 0	4 1		0	1	0	0	0	1	0	0	0	0	0
Sheopur	26 3	+1 8	30 4	13	9 0	+1 2	5 3	9	0	5 0	−10 3	3 0	3	1	−0 9	6 9	5 4	0	0	1	0	0	0	0	0	0	0	0	0
Shivpuri	24 5		30 8	29	6 9		1 8	10, 11	0	5 4		5 4	3	1		4 1	3 5	.	0	1	0	0	0	0	0	0	0	0	0
Nowgong	25 3	+1 5	29 5	20	8 0	−0 1	3 8	11	0	1 0	−11 0	1 0	3	0	−1 5	5 4	2 5	+0 7	0	1	0	0	0	2	0	0	0	0	0
Guna	26 2	+1 1	29 2	13,14	9 6	+2 0	2 9	11	0 2	4 0	−2 6	3 2	3	1	-0 2	8 7	6 1		2	2	0	0	1	0	0	0	0	0	0
Nimach	25 9	+0 8	30 3	13	12 3	+3 1	9 4	4	0 9	5 4	+0 3	4 2	3	1	+0 6	8 1	6 3	-0 1	0	2	0	0	0	0	0	0	0	0	0
Rajgarh	27 1		31 6	15	10 9		5 3	11	0	7 7		6 2	3	1		7 7	5 7		0	2	0	0	0	0	0	0	0	0	0
Sagar	25 3	+0 1	28 7	30	12 6	+1 2	9 7	7	0	2 0	−12 5	2 0	3	0	−1 3	8 8	6 6		0	1	0	0	0	0	0	0	0	0	0
Ratlam	27·4	+0 9	31 0	13	12 5	+1 4	9 3	6	0	21·6	+13 6	19 8	3	1	+0 9	11 3	9 0	−1 0	0	3	0	0	0	0	0	0	0	0	0
Bhopal (Bairagarh)	26 5	+0 2	29 2	29	11 8	+1 9	8 2	11	0 7	3 9	−2 2	3 2	3	1	+0 2	10 1	8 4	+0 2	0	2	0	0	0	0	0	0	0	0	0
Ujjain	27 1		30 2	12,31	10 7		7 1	18	0	29 2		16 4	25	3	.	9 1 (a)	6 9		0	4	0	0	1	0	0	0	0	0	0
Narsinghpur	27 2		30 6	27,28	8·9		3 8	12	6 0	6 0		6 0	4	1		4 6	2 5		0	1	0	0	0	0	0	0	0	0	0
Hoshangabad	27 5	+0 6	30 7	29,30	13 7	+1 4	10 0	12	0 8	7 2	−3 0	6 4	3	1	+0 1	5 3	5 2	+1 8	0	2	0	0	0	0	0	0	0	0	0
Indore	26 8	+0 4	29 8	30	11 9	+2 2	9 1	6	1 6	16 0	+9·9	8 3	3	2	+1 5	9 7	7 7	.	0	4	0	0	1	0	0	0	0	1	0
Rajpur (Jhabua)	28 9		32 2	14	13 1		10 0	5,20	2 2	11 1		8 2	3	2		5 3	3 5	.	0	3	0	0	0	0	0	0	0	0	0
Chhindwara	26 4	+0 3	29 2	30,31	11 2	+0 6	7 6	12	10 6	23 4	+2 3	10 4	8	3	+1 4	5 0	3 0	−1 5	1	3	0	0	0	0	0	0	0	0	0
Seoni	26 1	+0 1	29 6	30	11 7	+0 6	8 4	2,12	10 0	18 4	+4 4	7 0	8	3	+1 8	6 6	4 5	+0 8	0	5	0	0	0	0	0	0	0	0	0
Betul	27 0	+0 5	29 5	30	11 9	+0 8	7·6	12	6 6	11 6	+4 3	4 2	8	3	+2 1	5 9	3 6	−1 1	0	4	0	0	0	0	0	0	0	0	0
Khandwa	30 2	+0 9	32 9	30	12 9	+1 5	9 2	1	0	9 4	+1 5	8·2	9	1	+0 4	6 6	5 1	+0 8	0	2	0	0	1	0	0	0	0	0	0
Madhya Pradesh																													
Satna	25 9	+2 0	32 8	30	9 2	+0 3	5 1	10	0 4	0 4	−20 9	0 4	4	0	−1 8	4 0	2 9	−0 5	0	1	0	0	0	0	0	0	0	0	0
Rewa	25 1		27 9	20	9 3		5 0	11, 12	0 1	0 1		0 1	4	0		4 4	2 1		1	0	0	0	0	0	0	0	0	0	0
Sidhi	26 1		28 6	29	8 3		4 4	12	0	0		0		0	..				0	0	0	0	0	0	0	0	0	0	0
Umaria	25 7	+0 7	28 9	29	8 7	+0 6	4 3	11	0	0	−25 7	0		0	−2 1	5 3	3 0	−0 4	0	0	0	0	0	1	0	0	0	0	0
Jabalpur	26 7	+1 5	30 4	27	10 3	+1 5	5·5	11	0 4	0·4	−20 4	0 4	4	0	−1 7	5 5 (c)	3 0 (d)	+0 7	0	1	0	0	0	0	0	0	0	0	0
Ambikapur	24 0	+0 1	26 7	30	9 1	+0 5	5 2	10, 12	0	0 8	−21 1	0 8	5	0	−2 2	7 5	4 6	−1 5	0	1	0	0	0	2	0	0	0	0	0
Joshpurnagar	23 3		26 0	31	8 5		3 9	11	0	3 5		3 4	5	1		6 5	3 7		1	1	0	0	0	1	0	0	0	0	0
Pendra	23 8	+0·1	27 4	28	11 6	+1 3	9 0	1	0 6	4 0	−17 6	3 4	5	1	−0 7	6 9	4 6		1	2	0	0	0	1	0	0	0	0	0
Mandla	26 3	+0 3	29 5	30	9 1	+0 3	4 4	12	1 2	2 8	−25 9	1 2	8	0	−2 7	4 4	2 0	0	0	3	0	0	0	0	0	0	0	0	0
Champa	27·0	−0 5	30 6	30	12 7	−1 0	9 4	12	3 0	12 0	- 11 2	9 0	5	2	+0 5	5 6	4 4	−0 5	0	2	0	0	0	0	0	0	0	0	0
Raigarh	28·2	−0 2	31 6	30	13 5	−0 1	9 0	12	0	1 6	−16 8	1 6	5	0	−1 3	4 2	3 3	−0 7	0	1	0	0	0	0	0	0	0	0	0
Raipur	26 7	−0 9	29 7	29	14 0	+0 8	10 9	12	11 3	21 4	+12 0	7 4	7	4	+3 2	5 4	3 8	−0 7	0	5	0	0	0	2	0	0	0	0	0
Kanker	26 7	−1 4	29 6	31	13 2	+1 9	9 4	2	8 3	28 5	+23·4	10 9	6	3	+2 5	2 9	2·1	−0 8	0	3	0	0	0	1	0	0	0	0	0
Jagdalpur	28 0	+0 1	29 5	31	13 2	+1 7	9 2	13	0 2	7 8	−2 1	5 8	7	1	+0 3	4 4	2 5		2	2	0	0	1	5	0	0	0	0	0

(R) = Register not received *Departure indicated relates to 1940 normals accepted provisionally
'Data available for less than 15 days hence no means

(a) Mean of 30 days.
(c) Mean of 28 days.
(d) Mean of 27 days.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—JANUARY 1965 (PAUSA 11—MAGHA 11, 1886 SAKA)

Sub-Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Gujarat Region (including Daman, Dadra and Nagar Haveli)																													
Deesa	29·5		33·6	16,31					4·8	16·1		11·0	2	2		9·4	6·7		0	2	0	0	0	0	0	0	0	0	0
Radhanpur					12·9		9·1	27	6·2	18·2		12·0	2	2		6·4	4·8		0	2	0	0	0	0	0	0	0	0	0
Dhari	29·2		33·5	14	16·6		11·9	19	14·2	16·6		16·6	3	1		7·2	7·1		0	1	0	0	0	0	0	0	0	0	0
Ahmedabad	30·0	+0·9	34·5	13	14·7	+3·1	10·3	5	8·4	16·2	+15·7	14·3	3	2	+1·9	9·7	5·5	+1·5	0	2	0	0	0	1	0	0	0	0	0
Dohad	28·5	+0·4	32·2	13	11·0	+2·2	10·5	5	0	10·8	+7·8	10·8	3	1	+0·6	7·1	3·8	−3·3	0	1	0	0	1	0	0	0	0	0	0
Vallabh Vidyanagar	30·6		34·4	12	14·1		10·1	5	0	11·0		11·0	3	1		9·6	6·7		0	1	0	0	0	0	0	0	0	0	0
Baroda (Aerodrome)	31·3		35·4	16	14·7		9·4	5	0	8·2	..	8·2	3	1		7·7	6·0		0	1	0	0	0	0	0	0	0	0	0
Baroda	31·9	+1·9	35·8	12,13	15·3	+4·4	11·4	5	1·2	6·8	+4·3	6·8	3	1	+0·7	1·7	0·9	−3·0	0	1	0	0	0	0	0	0	0	0	0
Broach	32·4	+1·0	36·3	30 31	14·5	1·7	10·5	6	1·0	8·1	+6·9	8·0	3	1	+0·9	4·4	3·4	−2·5	1	1	0	0	0	0	0	0	0	0	0
Surat	33·0	+2·6	36·6	12	17·4	+3·1	15·0	6	1	0	−2·8	0		0	−0·2	10·2	7·7	+3·2	0	0	0	0	0	0	3	0	0	0	0
Saurashtra & Kutch (including Diu)																													
Naliya	29·4	.	34·6	15	11·4	.	8·2	4,5	0	0		0		0		8·2	4·2	.	0	0	0	0	0	0	3	0	0	0	0
Bhuj (Rudramata)	28·9	+2·6	33·6	17	12·7	−2·0	9·1	9	0·3	3·7	+1·7	3·4	2	1	+0·8	8·7	6·8	−2·2	0	2	0	0	0	0	3	0	0	0	0
Kandla (Aerodrome)	29·5		34·3	13	15·2		12·5	4	6·0	15·8		9·2	2	2		13·3	14·1		0	2	0	0	0	0	0	0	0	0	0
New Kandla	27·6		33·6	13	16·6		13·9	8	9·2	21·2		12·0	2	2		9·5	10·2		0	2	0	0	0	0	0	0	0	0	0
Mandvi	26·7	+1·1	31·5	31	10·4	+2·2	13·3	5	0	9·0	+7·6	9·0	2	1	+0·7	12·5	13·4	−1·9	0	1	0	0	0	8	0	0	0	0	0
Surendranagar	30·1	+1·9	34·8	13	16·1	+3·2	13·3	6,	11·6	12·7	+12·3	12·7	3	1	+1·0	7·4	6·4	−3·1	0	1	0	0	0	0	0	0	0	0	0
Okha	24·9		30·4	15	19·5		15·8	3	3·0	23·6		20·6	2	2		12·2	14·1	-	0	2	0	0	0	1	0	0	0	0	0
Jamnagar (Aerodrome)	27·8	+0·9	32·5	15	12·8	+2·6	10·0	23	5·5	12·0	+10·7	6·0	2,3	2	+1·9				0	2	0	0	0	3	0	0	0	0	0
Dwarka	27·8	+2·3	33·7	15	17·0	+1·7	11·0	1	0	4·4	+1·9	4·1	2	1	+0·7	13·9	11·1	−2·1	0	1	0	0	0	2	0	0	0	0	0
Rajkot	29·8	+1·5	35·2	13	13·6	−2·5	8·8	4	6·4	8·4	+7·3	7·4	3	1	+0·9	13·0	9·6	−3·5	0	2	0	0	0	4	0	0	0	0	0
Bhavnagar (Aerodrome)	29·4	+1·7	33·6	12	15·4	+2·3	9·9	4	3·2	4·7	+2·4	4·7	3	1	+0·9	14·4	11·9	−0·3	0	1	0	0	0	0	0	0	0	0	0
Porbander (Aerodrome)	30·4	+1·9	35·4	17	15·1	−0·2	10·2	5	2·2	6·4	+4·0	3·6	2	2	+1·7	12·5	9·5		0	2	0	0	0	2	0	0	0	0	0
Keshod	30·9	.	35·0	17,31	13·6		8·8	4	8·0	8·4		8·4	3	1		13·3	12·3	.	0	1	0	0	0	0	0	0	0	0	0
Mahuva	30·7		35·0	16,17	16·1		8·0	5	2·0 (l)	7·0		7·0	3	1				-	0	1	0	0	0	0	0	0	0	0	0
Veraval	29·7		34·9	16	16·2		11·7	3	1·0	1·8	+0·8	1·6	3	0	−0·1	15·4 (d)	12·7 (d)		1	1	0	0	0	0	0	0	0	0	0
Konkan (including Goa)																													
Dahanu	29·1	+1·6	33·2	17	18·7	+2·1	16·2	19	0	0	−1·8	0		0	−0·2	15·6 (d)	11·0 (d)	−1·2	0	0	0	0	0	0	0	0	0	0	0
Bombay (Santacruz)	31·9	+2·9	35·3	13	17·8	+2·5	12·3	5	3·1	10·1	+6·7	7·0	21	2	+2·0	10·5	7·0		0	2	0	0	1	1	0	0	0	1	0
Bombay	30·8	+2·4	35·6	16	20·7	+1·4	16·5	5	0	0·9	-2·7	0·9	25	0	−0·2	10·5	8·6	−2·0	0	1	0	0	1	0	0	0	0	0	0
Alibag	29·7	+1·6	35·9	13	18·9	−1·4	14·5	6		1·0	−0·3	1·0	25	0	--0·2		7·8	+0·4	0	1	0	0	0	0	0	0	0	0	0
Bhira	31·7		35·5	11,12	16·6		10·6	6	4·0	4·0		3·2	26	1		4·3	2·6		0	2	0	0	0	0	0	0	0	0	0
Harnai	29·3	+1·5	33·4	16	22·6	+0·8	17·8	5	1·4	1·4	0	1·4	4	0	−0·2	12·9	11·4	−1·7	0	1	0	0	0	0	0	0	0	0	0
Ratnagiri	31·0		34·8	13	18·8	.	15·7	6	10·6	16·0	+14·0	16·0	4	1	+0·9	10·9	7·3		0	1	0	0	0	0	0	0	0	0	0
Devgarh	29·6	−0·5	33·4	13	21·0	0	18·4	13	1·4	25·0	+23·1	25·0	4	1	+0·8	14·5	11·5	−1·4	0	1	0	0	0	0	0	0	0	0	0
Vengurla	32·0	−0·1	34·6	13,30	18·5	−0·1	14·4	13	0·1	5·5	+5·1	5·5	4	1	+1·0	10·6	6·0		0	1	0	0	1	0	0	0	0	0	0
Panjim	32·3		35·2	16	18·8	.	16·7	15	0	0·5		0·5	4	0		11·1	9·2		0	1	0	0	0	0	0	0	0	0	0
Marmugao	30·5		33·7	13	21·6	.	20·2	15	0·3	2·9		2·9	4	1		.		.	0	1	0	0	1	0	0	0	0	0	0
Dabolim (Naval Air Station)	31·1		34·6	13	20·0		18·8	14,15	0	1·7		1·7	4	0		9·2	6·8		0	1	0	0	0	0	0	0	0	0	0
Madhya Maharashtra																													
Nandurbar	31·9	.	34·0	15	16·8		13·1	20	1·5	12·3		11·8	25	1	..	6·1	3·8		0	2	0	0	0	0	0	0	0	0	0
Jalgaon	30·9	+0·4	33·3	14	14·1	+1·5	9·3	18	0	7·0	−0·9	4·0	24	2	+1·4	11·7	9·5	+1·9	0	2	0	0	4	0	0	0	0	0	0
Malegaon	30·1	0	33·4	28	12·6	+1·3	9·6	18	0 (m)	21·0 (m)	+16·7	20·6	9	1	+0·7	6·7 (m)	5·1 (m)	−0·7	0	2	0	0	0	0	0	0	0	0	0
Ozar	31·1				13·2				0	4·5						10·0	7·4				0	0	2	0	0	0	0	0	0
Deolali (Aerodrome)	30·0	.	32·4	11	12·7	..	6·8	5	0	0·3	.	0·3	25	0		9·3	5·6		0	1	0	0	2	0	0	0	0	0	0
Ahmadnagar	30·3	+1·1	32·4	11	13·5	+1·7	9·8	13	0	0	−5·3	0		0	−0·4	10.7	6·9	+0·9	0	0	0	0	0	0	0	0	0	0	0
Khandala		.	..	.	.	.			.	0	−2·5	0		0	−0·1	.			0	0									
Poona (Aerodrome)	29·8	..	32·0	11	13·0	..			0	0		0		0				.	0	0	0	0	1	0	0	0	0	0	0
Poona	29·7	+0·2	32·0	11	11·8	+1·1	7·0	6	0	0·1	−1·4	0·1	25	0	−0·2	6·7	3·1		1	0	0	0	1	0	0	0	0	0	0
Jeur	29·7	−0·9	31·8	12	13·9	+0·5	9·6	13	0	1·2	+1·1	1·2	4	0	0	10·2	5·8	−0·1	0	1	0	0	0	0	0	0	0	0	0
Baramati	30·0	−0·6	32·5	11	14·2	+0·2	10·1	13	0	8·0	+8·0	8·0	4	1	+1·0	10·1	7·4	+0·7	0	1	0	0	0	0	0	0	0	0	0
Sholapur	29·5	−1·3	32·1	11	16·5	+1·3	12·1	13	0	0	−3·8	0		0	−0·3	13·5	8·6	−0·6	0	0	0	0	0	0	0	0	0	0	0
Miraj	29·8	−0·3	31·6	10,11	15·3	+1·1	12·5	15	0	0·8	+0·7	1·0	4	0	−0·1	..		..	1	1	0	0	0	0	0	0	0	0	0
Kolhapur	30·4	0	32·5	9	15·2	+0·5	12·5	13	0	2·8	+0·3	2·8	4	1	+0·6	15·3	9·6	+0·9	0	1	0	0	0	0	0	0	0	0	0
Marathwada																													
Aurangabad	29·9	+0·6	32·2	16	15·4	+1·7	11·8	18	0	3·4	−4·0	2·0	3	0	−0·5	8·1	6·4	−1·0	0	2	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthan)	29·3		31·1	15	12·0		7·6	18	0	17·3	.	16·7	8	1	.	7·6	3·7		0	1	0	0	1	1	0	0	0	0	0
Parbhani	29·5	−0·6	31·4	15	14·7	+1·1	11·0	13	0	0	−6·9	0		0	−0·6	7·0	5·1	−0·1	0	0	0	0	0	0	0	0	0	0	0
Nander	30·3		32·0	15	14·3	..	9·4	12, 13	0	7·0		2·3	3	0	..	7·4	3·9	..	0	4	0	0	0	0	0	0	0	0	0
Bir	30·4		32·4	10	13·4		10·0	18	0	1·1		1·1	26	0		4·0	2·5	..	0	1	0	0	0	0	0	0	0	0	0

(m) Total for 18 days

(b) Total or mean of 29 days.

(d) Mean of 27 days.

(a) Total for 30 days

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days 25 mm. or more)		Wind speed, kms per hour			Weather phenomena—No. of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 1830-1739 hours	Mean 24 hours	Departure from normal	Precipitation (0 1) and 0 2 mm	Precipitation (0 3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Live Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Vidarbha																													
Gondia	27 0	−0 5	31 0	29	13·9	+0 3	10 2	12	9 6	33 0	+11 9	16 4	7	3	+1 5	3 5	2 0	−1 1	0	4	0	0	0	0	0	0	0	0	0
Nagpur (Sonegaon)	27 8	−0 8	31 3	30	13·3	+0 5	10 3	12	1 4	19 9	+10 5	11 2	3	2	+1 2	8 9	7·1		0	3	0	0	0	2	0	0	0	0	0
Amraoti	29 5	+0 2	32 2	30	16 7	+1 6	14 0	12	0	3 8	−5 6	2 8	9	1	+0 2	9 2	9 2	+3 4	0	2	0	0	0	0	0	0	0	0	0
Akola (Aerodrome)	29 7	..	31 6	29	13 8		10 4	12	1 2	26 4		23 1	9	2		9 9	8 5	.	0	2	0	0	3	0	0	0	0	0	0
Akola	30 0	−0 1	32 4	29	15 1	+2 4	11 2	1	0 8	27 6	+18 7	19 6	9	2	+1 3	5 7	4 0	−0 3	0	3	0	0	0	0	0	0	0	0	0
Bramhapuri	27 9		31 0	31	15 1		11 4	13	0 6	46 8		41 2	6	2	.	5 2	2 6		0	3	0	0	0	0	0	0	0	0	0
Buldana	27 4	−0 1	29 0	16,23	15 6	+0 1	12 5	3	13 0	96 1	+88 4	68 6	9	4	+3 5	9 0	6,5	−1 7	0	4	0	0	2	0	0	0	0	0	0
Yeotmal	28 3	−0 4	31 0	30	15 6	0	13 3	26	0	29 0	+18 1	13 4	6	2	+1 3	9 7	8 4	−0 6	0	4	0	0	1	3	0	0	0	0	0
Chanda	28 6	−1 0	31 3	30	14 6	+1 6	9 7	1	1 6	22 4	+14 5	14 2	6	2	+1 3	5 7	3 6	+1 0	0	2	0	0	0	0	0	0	0	0	0
Pusad	30 1		31 4	6 days	14 0		9 1	12	7 6	10 4		7 6	5	2	.	7·1	4 5		0	2	0	0	0	0	0	0	0	0	0
Sironcha	29 7	−0 6	31 6	31	16 0	+0 5	11 4	13	1 1	10 9	+9 2	10 9	5	1	+0 6	4 7	3 1	−0 6	0	1	0	0	0	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Kalingapatam	28 2	+0 3	29 2	23	17 9	+0 4	13 4	13	0	0	−5 6	0		0	−0 6	11 3	7 0	−0 7	0	0	0	0	0	0	0	0	0	0	0
Vishakhapatnam	29·2	−0 1	31 5	28	18 7	+0 8	13 6	13	0	7 9	−3 0	7 1	11	1	+0 5	16 0	8 1	+3 4	0	1	0	0	0	0	0	0	0	0	0
Kakinada	2/ 9	+0 6	28 6	10,15, 29	18 5	−0 6	16 2	16	0	1 6	−5 5	0 8	1,21	0	−0 5	12 9	9 8	+0 9	0	2	0	0	0	0	0	0	0	0	0
Nidadavole	29 5		31 5	9	18 5		14 2	14	0	18 0		18 0	10	1		5 6	5 6	.	0	1	0	0	0	0	0	0	0	0	0
Rentachintala	31 1	+0 4	32 3	9,10	17 7	+1 2	14 2	28	0	0	−0·3	0		0	0	5 7	3 6	−1 7	0	0	0	0	0	0	0	0	0	0	0
Gannavaram	29 6	−0 5	30 6	4days	19 4	+0 3	17 6	13, 14, 28	0	3 8	+3 0	3 8	1	1	+0 9	13 6	8 5	−1 3	0	1	0	0	0	0	0	0	0	0	0
Nagarjuna Konda		.				..	.			..	.	.	.			,												..	..
Masulipatam (R)	28 2	−0 1	28 8	29	19 3	+0 4	17 0	14	0	0	−5 1	0		0	−0 3	5 5	3 4	−2 9	0	0	0	0	0	0	0	0	0	0	0
Ongole	29 6	.	31 4	9,10	19 9		17 5	12	3 6	3 6	..	3 6	3	1	.	6 3	4 4		0	1	0	0	0	0	0	0	0	0	0
Nellore	30 0	+0 4	31 3	9	20 1	+0 4	17 8	15	0	0	−33 3	0		0	−1 4	9 1	5 6	+1 1	0	0	0	0	0	0	0	0	0	0	0
Telangana																													
Ramgundam	30 3	−0 6	31 8	15	17 0	+1 0	13 3	12	2 8	23 0	+21 0	8 2	4	3	+2 7	4 5	2 5	−2 4	0	3	0	0	0	0	0	0	0	0	0
Nizamabad	29 6	−0 5	31 1	15	15 7	+1 5	12 0	13	0	16 0	+10 9	11 0	1	2	+1 6	4 8	4 5	+1 1	0	2	0	0	0	0	0	0	0	0	0
Hanamkonda	29 3	−0 1	31 6	10	17 1	+0 5	13 3	13	0	0	−10 2	0		0	−0 7	5·5	4 5	-1 3	0	0	0	0	0	0	0	0	0	0	0
Hakimpet (Aerodrome),	27 5		29 3	10	16 5		14 7	12	0	5 1	..	5 1	6	1		.	..	.	0	1	0	0	0	0	0	0	0	0	0
Bhadrachalam	31 0	+0 1	32 6	21	18 0	+1 3	12 0	13	0	0	−2·6	0		0	−0 4	3 3	3 5	−1.6	0	0	0	0	0	0	0	0	0	0	0
Hyderabad(Begampet)	28 3	0	30 3	10	14 2	−0 5	9 7	12	1 0	1 0	−6 9	1 0	5	0	−0 5	12 4	7·7	+0 5	0	1	0	0	0	2	0	0	0	0	0
Khammam	30 3	..	32 1	10	18 3		14 2	13	0 3	1 1		0 8	5	0	..	4 5	2 7	..	0	2	0	0	0	1	2	0	0	0	0
Mahbubnagar	28 2	..	30 6	10	16 5	.	13 7	29	0	0	..	0	.	0	..	12 5	9 2	.	0	0	0	0	0	0	0	0	0	0	0
Rayalaseema																													
Kurnool	30 5	−0 8	32 0	11	17 7	+1 3	13 0	14	0	0	−3 8	0		0	−0·3	8 3	6·3	+1 6	0	0	0	0	0	0	0	0	0	0	0
Nandyal (R)			..		.	.							..	.	..	..	.	.			.	.	.	..	..	..	..	..	
Anantapur	29 8	−0·5	31 3	4,5,10	17 4	+0 1	12 3	14	0	0	−3 9	0		0	−0 2	12 1	10 1	0	0	0	0	0	0	0	0	0	0	0	0
Cuddapah	30 2	−1 0	31·4	10	18 9	+0 2	15·2	14	0	0	−9 9	0		0	−0 6	1 5	1 0	−9 6	0	0	0	0	0	0	0	0	0	0	0
Arogyavaram	26 4	.	27·8	6	13 7	.	11 5	31	0	0		0		0	..	9 6	6·6	.	0	0	0	0	0	0	0	0	0	0	0
Madras State (including Pondicherry)																													
Madras	28 7	..	30 1	15	21 4	..	17 5	14	0 2	0 9	.	0 3	17, 20	0	.	10·3	7 2	.	2	2	0	0	0	0	0	0	0	0	0
Madras (Minambakkam)	28 6	−1 0	29 8	15	20 5	+1 0	17 6	14	1 0	27 8	−8 0	13 5	1	2	+0 3	12·0	7·5	−2 2	0	3	0	0	0	0	0	0	0	0	0
Vellore	28 3	−0 5	30 4	5	17 9	0	13 9	15	0	6 5	−30 3	6 5	3	1	−1 1	11 9	7 4	+3·5	0	1	0	0	0	4	0	0	0	0	0
Tambaram (Aerodrome)	28 1	..	30 5	15	19 3	.	16 7	14	5 8	8 6	.	5 8	18	2	.	.	..	..	0	3	0	0	0	0	0	0	0	0	0
Tiruppattur	28 4	..	30 0	11 13 14	16 1	.	12 0	15	0	0		0		0	..	6 0	4 8	..	0	0	0	0	0	0	0	0	0	0	0
Mettur Dam R S	30 0	.	31·8	11	18 5	.	15 4	16	0	0		0		0	.	5 7	5 8	..	0	0	0	0	0	0	0	0	0	0	0
Cuddalore	28 0	−0 2	28 8	10	20 5	0	17 0	15	0 4	33 4	−26 3	13 0	3	4	+1·6	13·3	9 7	+2·5	0	5	0	0	0	0	0	0	0	0	0
Kallakurichchi	29 5	..	30 3	9	20 2	..	18·1	14	5 0	5 0	−25 5	2 0	2	0	−1 4	11 5	8·6	..	0	3	0	0	0	0	0	0	0	0	0
Salem	30 2	−1 0	31 4	15	19·2	+0 9	16 6	15	0	0 2	−7 2	0 2	17	0	−0 7	12 0	10·8	+4·5	1	0	0	0	0	0	0	0	0	0	0
Coimbatore (Palamedu)	28 5		29 8	15	16 9	..	13·0	15	0 4	0 4		0 4	2	0	.	17 6	12 3	.	0	1	0	0	0	0	0	0	0	0	0
Coimbatore	28 6	−1 4	30 2	15	17 7	−0 6	11 3	15	0	0	−16 0	0	.	0	−1·1	.	6 5	+2·3	0	0	0	0	0	0	0	0	0	0	0
Nagapattinam	28 0	+0 1	29 0	5	23 2	+1 1	20 5	31	8 6	12 8	−56 5	12 0	3	1	−2 0	19 8	20 0	+7·3	0	2	0	0	0	0	0	0	0	0	0
Tiruchchirappalli	30 0	−0 5	31 1	15,31	20 0	−0 1	16 8	24	0 6	1·1	−24 0	0 6	11	0	−1 7	14·2	10·0	+1 3	0	2	0	0	0	0	0	0	0	0	0
Vedaranniyam	30 0	.	30 8	5,10	23 1	..	19 5	24	2 3	3·7	..	2 3	21	0	.	12 4	10·0	..	0	2	0	0	0	0	0	0	0	0	0
Atirampattinam	30·2		31.0	10,27	20 6	..	19 3	15	0	0	,	0	,	0	.	13·5	9 0	,	0	0	0	0	0	5	0	0	0	0	0
Madurai	30 1 (b)	+0 2	31·0	15,16	20 5 (b)	+0 9	18·6	24, 25	0	0	−19·8	0		0	−1 5	.	7·2	0	0	0	0	0	0	0	0	0	0	0	0
Madurai Aerodrome	29 6		30 5	15,27	20·3	..	17 7	24	0	0	.	0	.	0	..	16 0	11·4	..	0	0	0	0	0	0	0	0	0	0	0
Tondi	29 0		29 9	12	21 7	..	19 7	23	0	9·4	..	9·4	3	1	..	22·0	18·0	..	0	1	0	0	0	0	0	0	0	0	0
Pamban	29 9	+0 8	29 8	5	24·9	+1 3	22·3	6	6 4	6 4	−58 9	6·4	2	1	−3 0	21 7	18·3	+2·5	0	1	0	0	0	0	0	0	0	0	0
Tuticorin	28 3	+0·7	29 1	4,5	21.4	−0 9	18 3	23	0	1 5	−15 0	1 5	11		−1 7	26 1	24·4	+2·1	0	1	0	0	0	0	0	0	0	0	0

(b) Mean of 29 days. (R) Register not received.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No of rainy days (2.5 mm or more)		Wind Speed kms per hour			Weather phenomena—No of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hour	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm)	Precipitation (0.3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Madras State—(including Pandicherry) (Contd.)																													
Palayankottai	31.8	+1.1	32.6	7	21.5	−0.3	19.9	24	0	0	−12.7	0		0	−2.6	11.9	10.4	+1.2	0	0	0	0	0	0	0	0	0	0	0
Kanniyakumari	31.6		32.5	19 15	23.4		22.0	24	0	0		0		0		31.0	25.0		0	0	0	0	0	0	0	0	0	0	0
Coastal Mysore																													
Karwar	31.9	+1.4	34.8	12	18.7	−0.2	15.1	14	12.2	12.2	+11.3	12.2	5	1	+0.9	11.0	7.0		0	1	0	0	0	0	0	0	0	0	0
Honavar	32.2	+0.4	34.9	16	20.6	−0.7	18.5	15	6.3	8.9	+5.3	8.9	5	1	+0.5				0	1	0	0	0	0	0	0	0	0	0
Mangalore (Bajpe)	32.1		33.6	17	20.2		18.0	14	0	0		0		0		11.2	7.3		0	0	0	0	0	0	0	0	0	0	0
Mangalore	32.8	+1.1	34.1	16	21.1	−0.3	19.0	26	0	0	−2.8	0		0	−0.2	15.0	9.1	+1.7	0	0	0	0	0	0	0	0	0	0	0
Interior Mysore North																													
Bidar	27.6	−1.2	29.2	11	17.0	0.3	15.2	1	0	0.4	−5.2	0.4	4	0	−0.5	15.0			0	1	0	0	0	0	0	0	0	0	0
Gulbarga	29.8	−0.9	31.6	10 11	16.2	+0.6	10.4	1.	0	2.6	−2.7	2.6	4	1	+0.7	13.8	9.2	+1.6	0	1	0	0	0	1	0	0	0	0	0
Bijapur	28.7	−1.4	30.6	11	16.9	1.2	12.6	1.	0.5	0.5	−4.1	0.5	5	0	−0.2	8.7	5.4	+0.9	0	1	0	0	0	0	0	0	0	0	0
Raichur	29.7	−0.7	31.2	10	19.0	−0.8	15.6	14	0	0	−3.5	0		0	−0.2	20.3	0.5	+1.8	0	0	0	0	0	0	0	0	0	0	0
Belgaum	28.6	−1.5	31.0	10 11	15.1	+1.3	1.9	18	3.9	4.3	−1.2	3.9	5	1	−0.8	6.6	4.4	−1.4	0	2	0	0	0	0	0	0	0	0	0
Belgaum (Samra)	28.1		3.0	10 11	16.3		13.8	18	2.5	3.5		2.1	5	0		12.8	7.6		0	1	0	0	0	0	0	0	0	0	0
Gadag	29.2	−0.4	31.6	11	17.0	+0.6	15.5	1.	0	3.9	+1.6	3.9	7	1	+0.8	12.0	8.3	+0.9	0	1	0	0	0	0	0	0	0	0	0
Interior Mysore South																													
Bellary	30.9	−0.1	32.6	10	17.0	+0.2	14.0	14 15	0	0	−2.5	0	0	0	−0.5	9.0	6.0	+1.7	0	0	0	0	0	0	0	0	0	0	0
Chitradurga	27.8	−1.5	30.1	5	17.3	+0.3	14.6	20	0	0.6	−5.5	0.8	6	0	−0.9	11.7	8.6	+1.2	0	1	0	0	0	0	0	0	0	0	0
Shimoga	28.1	−2.4	29.6	10	11.0	−0.6	9.6	1.	0	24.6	+21.5	24.6	7	1	+1.0	4.0	4.8	+0.7	0	1	0	0	1	11	0	0	0	0	0
Agumbe	27.4		29.2	11	13.1		8.6	22	0	0		0		0			5.6		0	0	0	0	0	0	0	0	0	0	0
Balehonnur	27.4	+0.2	28.9	3 10	14.5	−0.2	12.5	1.	0	13.0	+11.7	13.0	7	1	+0.8				0	1	0	0	0	1	0	0	0	0	0
Hassan	26.9	−1.3	28.7	7	15.9	0	11.1	15	0	0	−4.3	0		0	−0.5	8.7	5.4	+0.4	0	0	0	0	0	0	0	0	0	0	0
Bangalore	25.8	−1.0	27.9	6	14.9	+0.8	10.8	14	0	0	6.1	0		0	−0.5	14.1	10.9	+2.7	0	0	0	0	0	3	0	0	0	0	0
Bangalore Aerodrome	25.8		28.4	6	11.2		10.3	13 11	0	0		0		0					0	0	0	0	0	3	0	0	0	0	0
Mysore	27.3	−1.7	29.5	7	16.1	+0.1	12.6	15	0	0	−3.6	0		0	−0.3	19.0	13.1	+3.6	0	0	0	0	0	0	0	0	0	0	0
Kerala																													
Calicut	31.3	+0.2	32.2	21 31	21.2	−0.4	18.8	16	0	0	8.9	0		0	−0.6	11.9	8.8	+0.4	0	0	0	0	0	0	0	0	0	0	0
Palghat	32.1		33.4	15	21.3		18.8	13	0	0		0		0		11.3	8.6		0	0	0	0	0	0	0	0	0	0	0
Fort Cochin	30.4	−0.1	32.0	12	21.8	−1.3	19.9	16	0	33.6	+11.0	32.1	6	1	−0.1	13.9	8.4	+1.8	0	2	0	0	1	0	0	0	0	0	0
Cochin (Naval Air Station)	31.2		32.2	21	21.0		16.9	16	0	56.8		55.4	6	2		10.6	8.4		0	2	0	0	2	0	0	0	0	0	0
Alleppey	32.7	+0.9	35.8	14	21.0	−0.6	18.7	23	0	6.4	−8.7	6.4	6	1	−0.4	13.6	9.0	+0.4	0	1	0	0	1	0	0	0	0	0	0
Punalur	33.9		35.1	11	19.8		16.2	2.	0	2.2		2.2	6			2.4	3.1		0	1	0	0	0	0	0	0	0	0	0
Trivandrum	31.9	+0.6	34.5	30	22.4	+0.2	20.5	25	0	9.9	−10.2	9.5	5	1	0.7	8.5	5.7	+2.0	0	1	0	0	4	0	0	0	0	0	0
Trivandrum Aerodrome	30.5		32.3	1.	21.6		18.8	25	0	18.4		13.2	5	2			4.8		0	3	0	0	2	0	0	0	0	0	0
Arabian Sea Islands																													
Amini	31.4	+0.8	32.8	21	22.1	1.3	20.3	5 2.	0	0.6	−16.2	0.4	6	0	−1.1	7.5 (1)	2.9	−2.3	1	1	0	0	1	0	0	0	0	0	0
Minicoy	30.2	+0.7	31.4	1.	21.9	−0.9	19.2	25	0	0	−16.5	0		0	−9.6	7.3	4.5	−2.4	0	0	0	0	0	0	0	0	0	0	0
Hill Stations (excluding Kashmir																													
Dalhousie	14.0	+3.1	20.4	14	3.2	1.1	2.0	1,5,20	21.6	85.0	−117.7	58.0	20	4	−2.8	2.7	4.2	+0.6	0	5	1	1	1	4	0	0	0	0	0
Dharmsala	16.3	+1.9	20.9	12	7.0	1.5	−3.8	3,17	21.0	45.4	−97.8	25.2	20	2	−5.7	6.1	4.8	0	0	3	0	0	2	0	0	0	0	0	0
Simla	11.2	+2.6	16.1	11					7.3	19.6	−52.7	6.4	20	2	−2.8	2.6	2.4	−0.1	0	1	1	1	0	0	0	0	0	0	0
Dharmpur										10.0	−30.4	24.0	4	2	−2.0				0	3									
Lokpal	−4.0		−2.4	19	−12.6		11.6	5		14.2		15.4	23	4					0	1	5	0	0	0	0	0	0	0	0
Badrinath	Closed during Winter Months																												
Joshimath	19.4		17.2	12	3.4		0.1	20	6.2	53.8		26.2	20	4		5.1	6.5		0	5	3	0	0	0	0	0	0	0	0
Mussoorie	13.1	+3.4	20.1	14	3.2	4.0.5	−2.0	20	3.6	22.4	−46.4	11.6	1	2	−3.0	9.3	8.8	+1.7	0	2	3	0	3	0	0	0	0	0	0
Mukteswar (Kumaun)	12.3	+2.4	16.7	31	2.1	+0.5	−5.	20	6.0	22.5	−32.4	12.5	20	3	0.6	10.7	11.5	+2.5	0	3	2	0	1	2	0	0	0	0	0
Naini Tal	12.5	+2.2	18.0	12	2.0	+1.3	−0.6	7	18.0	50.0	−67.5	21.0	4	1	2.5	9.5	8.0	+0.9	0	5	2	0	0	0	0	0	0	0	0
Kalimpong	17.4	+2.2	22.2	15	13.6	15.9	11.9	3	0	0	−10.4	0		0	−0.9	15.2	12.6	+1.8	0	0	0	0	0	0	0	0	0	0	0
Darjeeling	11.5	+2.3	16.5	16	2.5	−0.4	0	9	0	0	−13.5	0	(R)	0	−1.2	1.6	2.0	+0.9	0	0	0	0	0	5	0	0	0	0	0
Kohima	15.0		20.3	31	7.8		5.0	8.		10.8		8.2	22	2	(R)	(R)	1.1	(R)	0	2	0	0	0	0	0	0	0	0	0
Shillong	17.0	+1.1	1.4	11	4.3	+0.5	0.6	7	0	0.6	−12.6	0.6	19	0	−1.1	0.9	1.0	−1.4	0	1	0	0	0	4	0	0	0	0	0

(1) Mean of 19 days.

(R) Register not received.

Sub-Division and Station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm or more)		Wind speed, kms per hour			Weather phenomena No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during (0830-1730 hours)	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm)	Precipitation (0.3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Hill Stations excluding Kashmir — (Contd.)																													
Cherrapunji (R)																													
Abu	21·7	+2·9	26·5	16	9·5	−0·9	5·1	4	17·8	35·0	−28·4	17·6	3	2	+1·4	4·3	4·0	−1·6	0	2	0	0	0	1	0	0	0	0	0
Ajmal	20·0		22·2	21,30	11·2		8·9	9,10	0	0		0		0		(c) 7·5	8·6		0	0	0	0	0	0	0	0	0	0	0
Pachmarhi	21·7	−0·5	25·9	30	8·5	−0·2	1·0	11	2·2	9·6	−6·7	4·6	7	2	+0·7	3·8	2·6	−1·9	0	4	0	0	0	0	0	0	0	0	0
Mahabaleshwar	24·0	+0·4	27·0	10	13·6	−0·3	8·7	5	8·5	9·0	+5·1	9·0	1	1	+0·8	11·8	11·5	+2·0	0	1	0	0	0	2	0	0	0	0	0
Mercara	23·8	−1·5	26·0	11	13·4	−1·6	9·0	15	9·4	10·0	+5·9	10·0	6	1	+0·7	15·0	10·9	+4·5	0	1	0	0	0	1	0	0	0	0	0
Ootacamund	21·0	+2·2	24·1	10	5·9	+0·2	1·6	22, 23	0	0	−32·8	0		0	−1·8	5·3	2·9	−2·1	0	0	0	0	0	0	0	0	0	0	0
Coonoor (R)																													
Kodaikanal	16·6	−0·2	19·7	9	6·4	−1·7	2·8	22	0	0·2	−80·8	0·2	2	0	−1·0	12·0	11·2	−2·6	1	0	0	0	0	0	0	0	0	0	0
Nepal																													
Katmandu	19·0		21·5	16,29	1·1		−2·7	9	1·1	1·7		1·7	21	0		0·9	0·7		0	1	0	0	0	11	0	0	0	0	0
Sikkim																													
Lachen	8·6		11·5	14,16	−2·0	.	−3·5	9,14		23·0		13·0	21	3					0	5	0	0	0	0	0	0	0	0	0
Hydrometeorological Observatories																													
Damodar Catchment																													
Tilaiya	23·7		26·6	21	10·0	..	5·6	11, 12	0	0		0		0		10·3	9·2		0	0	0	0	0	0	0	0	0	0	0
Hazaribagh	22·6		25·0	21	8·7	..	4·5	11	0	0		0		0		9·4	5·0		0	0	0	0	0	0	0	0	0	0	0
Konar	24·0		26·4	21,22	11·2	..	7·7	12	0	0		0		0		9·8	8·6		0	0	0	0	0	0	0	0	0	0	0
Bokaro	26·6		28·9	21 22, 29	6·7	.	1·7	10	0	0		0		0		6·0	3·3		0	0	0	0	0	0	0	0	0	0	0
Maithon	26·6		29·3	28	9·5	..	5·0	8	0	0		0		0					0	0	0	0	0	4	0	0	0	0	0
Ramgarh	25·9		28·5	21	11·4	..	4·2	10	0	0		0		0		3·5	1·6		0	0	0	0	0	0	0	0	0	0	0
Panchet Hills	26·3		29·2	29	12·9	..	9·2	11	0	0		0		0		3·6	2·6		0	0	0	0	0	0	0	0	0	0	0
Durgapur	26·9		29·5	29	13·3	.	9·1	10	0	0		0		0		5·3	6·1		0	0	0	0	0	15	0	0	0	0	0
Mahanadi Catchment																													
Gmabahar	25·8		29·7	29	8·7	.	3·6	10		2·3		2·3	5	0					0	1	0	0	0	3	0	0	0	0	0
Hirakund	27·0		29·2	22	14·6		9·7	12	4·6	5·8	.	5·3	5	1		10·2	5·5	..	1	2	0	0	0	1	0	0	0	0	0
Bhimkund	26·5		28·9	29,30, 31	11·6		7·2	11	0	1·2		1·2	5	0		4·7	2·2		0	1	0	0	0	4	0	0	0	0	0
Sonepur	27·3		31·0	30	15·8	.	11·6	2	.	11·4	..	8·4	4	2			3·0		0	2		.		..		.	..	..	
Kharjawan	26·4		29·6	30	12·0		8·9	1,2	0	0		0		0	.	5·3	3·7		0	0	0	0	0	0	0	0	0	0	0
Narmada Catchment																													
Bagra Tawa	27·9		31·6	29	11·2		7·6	12	0	3·0		3·0	3	1		5·5	3·1	..	0	1	0	0	0	0	0	0	0	0	0
Punasa (R)																													
Thikri	30·1		33·6	14,30	13·7	.	19·3	20		11·8		5·6	27	3		..	.		0	4		.	.	..			.		
Sabarmati Catchment																													
Dantiwada	30·0		33·4	31	14·2	.	11·0	3,4	9·5	12·5		10·5	3	1	.	.	.	..	0	2	.			..		.	.	..	.
Gandak Catchment																													
Jomosom	13·2		17·0	30	−1·6		−5·4	21	15·2	15·2		15·2	21	1	..	..	..	..	0	1				..	.	.	..	..	..
Khudi Bazar			.	.						1·6		1·6	22	0		.	.		0	1		.	..	..		.	..	..	
Timure	16·1		20·1	31	0·4		0	7 days	0	7·8		7·8	21	1	.	..			0	1			.	..	.	.			
Pokhara	19·9	..	22·4	16	7·8		4·1	21	5·0	5·3	..	5·3	21	1		3·3	2·6	..	0	1	0	0	1	1	0	0	0	0	0
Gorkha	18·5		21·1	31	8·0		5·3	21	0·9	1·4	..	1·4	21	0	.		.	..	0	1	0	0	1	0	0	0	0	0	0
Nuwakot	20·3	..	22·4	31	9·1		6·8	9	0	0	.	0		0		.		.	0	0	.		.	..		.	..	..	
Ghaghara Catchment (Trans Himalayan Region)																													
Darlekh	15·6		17·7	31	5·3		2·1	22	25·0	32·4		25·0	22	2	..	..	.	.	0	2	.		..	..	.	.		..	..
Ghaghara Catchment																													
Dadeldhura	12·6 (c)	..	16·3	9	4·5 (d)	.	−0·9	21	16·0	38·1	..	18·7	20	3	.	5·9	5·0		0	5	2	0	2	3	0	9	0	0	0
Sallayana	18·1		21·0	9	6·9	..	1·5	21	18·0	18·0		18·0	21	1		.		.	0	1		.	.	..		.	..	..	..
Butwal	24·1		26·9	16	12·5		6·1	8	7·2	9·6	..	9·6	21	1	.	..	..	.	0	1	.		..	..	..	.	..	.	..

(R) Register not received.

(c) Mean of 28 days

(d) Total for 27 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km per hour			Weather phenomena—No of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	In the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm)	Precipitation (0·3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories *(Contd.)*																													
Bagmati Catchment																													
Katmandu* .																													
Kosi Catchment																													
Chautara .	18·4	..	20·7	27	6·4	.	4 6	8	0	0		0		0	.	..	.	..	0	0		..	..	.	.			.	
									0																				
Walungchung Gola	6·0		8 3	17, 29	−3·6	..	−6 9	9	0	0	.	0	..	0	.	..	.	..	0	0	..	..	..				.		
Taplethok .	19·2	.	21 6	16	7 6	..	4·8	3,7	0	7 0	..	7·0	21	1	.	.	.	..	0	1	..	..	..	.	.		..		
Bhojpur .	14 6	..	16 8	16	7 0	.	5 2	8	0	0	..	0	..	0	..	..	.	..	0	0	..	..	.	..	..		..		.
Taplejung	14 1		17 2	16	5 3	..	2 5	6,7	0	12·8	..	12 8	21	1	..	5 6	3 7	..	0	1	0	0	1	2	0	2	0	0	0
Okhaldhunga .	15 0	.	18 5	31	4 8	..	2 2	8	0	0 2	..	0 2	21	0		2 1	1 7	.	1	0	0	0	0	0	0	4	0	0	0
Chainpur . .	19 5	..	20 9	4 days	10 0	..	7 9	17	0	0	..	0	..	0		..	..	.	0	0			..	..				.	
Angbung . .	.	..	..	..	..			..	0	0	.	0	.	0			.	..	0	0			..		.				
Barahakshetra .	24 2	..	26 7	16	10 9	..	8·9	7	0	0	..	0	.	0	.	5 9	3 9	..	0	0	0	0	0	0	0	0	0	0	0
Tista Catchment																													
Gangtok . .	14 5	..	18·8	16	5·2	..	3 0	6	0 6	8 4	..	3 3	4	1	..	3 6	2 5	.	1	4	0	0	0	10	0	0	0	0	0
Gezing . .	17 2	..	21·2	16	6·5	..	3 8	11	0	0 9	..	0 9	4	0	..	.			0	1			.		.				

*Data included under Nepal.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km per hour	Wind speed (km p.h.): 62 or more	Wind speed (km p.h.): 20 to 61	Wind speed (km p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar . .	0830	28	1014·8	1011·6		24·8	21·4	19·5	22·7	73		2·5		8·6	0	7	14	5	11	2	1	0	0	0	2	10	0
	1730	,,	1011·7	1008·5		25·2	21·5	19·5	22·7	71	.	2·7		14·6	0	7	23	3	23	1	1	0	0	0	2	1	0
Long Island . .	0830	25	1014·9	1012·1		25·7	22·0	20·1	23·5	75	.	4·0	..	1·4	0	0	24	0	6	6	3	0	0	4	3	7	0
	1730	,	1012·1	1009·3	.	24·8	21·5	19·7	22·9	73		3·8	.	0·6	0	0	14	2	4	5	1	0	0	1	1	17	0
Port Blair . .	0530	79	1012·5	1003·5		22·3	20·2	19·0	22·0	82		4·3	.	6·8	0	3	15	2	7	7	0	0	0	1	1	13	0
	0830	,,	1014·7	1005·7	+0·9	26·9	22·1	19·5	22·7	64	−7	4·2	+0·8	12·1	0	6	22	3	14	6	1	0	0	1	1	5	0
	1130	,,	1013·2	1004·3	.	28·8	22·4	18·9	21·8	55	..	1·0		15·1	0	5	25	2	18	10	0	0	0	0	0	1	0
	1730	,,	1011·8	1002·8	..	25·1	21·2	19·1	22·1	59	..	4·0		9·9	0	2	27	3	18	6	0	3	1	0	1	2	0
	2330	,,	1013·4	1004·3	..	23·5	20·8	19·3	22·4	78	.	2·6		8·6	0	3	21	3	15	7	0	0	0	0	1	7	0
Car Nicobar . .	0830	10	1013·6	1012·4	.	27·7	22·8	20·3	23·8	65	..	3·2	..	3·5	0	0	29	0	29	0	0	0	0	0	0	2	0
	1730	,,	1010·7	1009·5		26·4	22·7	20·8	24·6	72	.	3·0		3·3	0	0	27	0	27	0	0	0	0	0	0	4	0
Nancowry . .	0830	26	1013·3	1010·3	.	27·9	23·9	22·0	26·4	71	.	5·1	.	0	0	0	1	0	1	0	0	0	0	0	0	30	0
	1730	,,	1010·5	1007·6	..	26·9	23·4	21·7	25·9	74		2·8		0	0	0	0	0	0	0	0	0	0	0	0	31	0
Kondul . . .	0830	8		.	..	27·1	23·9	22·4	27·1	75	.	5·5	.														
	1730	,,		..	..	26·7	23·9	22·6	27·4	77		3·1	.														
North Assam (Including NEFA)																											
Pasighat . .	0830	157	1018·7	1000·2	.	15·5	13·3	11·4	13·5	77		2·3		17·2	0	16	13	2	1	0	0	0	0	0	26	2	0
	1730	,,	1015·1	996·6		15·5	14·2	13·2	15·2	87		2·6	.	3·3	0	0	24	2	2	0	0	0	0	1	19	7	0
Dibrugarh (Mohanbari)	0230	111	1016·3	1003·0	..	10·1	9·7	9·3	11·7	95		2·2		0·7	0	0	4	1	3	0	0	0	0	0	0	27	0
	0530	,,	1016·4	1003·0	..	9·3	9·0	8·7	11·2	95	.	2·5		0·9	0	0	3	0	2	1	0	0	0	0	0	28	0
	0830	,,	1018·5	1005·3	−0·3	14·7	13·1	11·7	13·7	82	−10	2·7	−1·4	5·3	0	0	30	1	15	13	1	0	0	0	0	1	0
	1130	,,	1015·9	1003·0	.	20·6	15·9	11·0	13·1	55		2·5		1·3	0	0	26	1	13	10	1	0	0	0	1	5	0
	1430	,,	1013·5	1000·7		22·6	15·9	10·5	12·7	46	..	2·2		3·7	0	0	23	1	8	7	2	0	1	1	3	8	0
	1730	,,	1014·5	1001·5		17·0	14·2	11·9	13·9	73		2·5		0·4	0	0	3	0	2	1	0	0	0	0	0	28	0
	2030	,,	1016·5	1003·3		13·0	12·1	11·3	13·4	90		2·1		0·1	0	0	1	0	1	0	0	0	0	0	0	30	0
	2330	,,	1016·9	1003·6		11·4	10·8	10·2	12·4	93		2·3		0·5	0	0	3	1	2	0	0	0	0	0	0	28	0
Dibai	0830	152	1020·5	1002·4	.	15·0	13·6	12·5	14·5	85		1·6		3·6	0	0	29	2	1	2	7	9	2	4	2	2	0
	1730	,,	1016·6	998·7		18·9	17·0	15·7	17·8	82				2·4	0	0	24	1	7	4	3	1	4	4	0	7	0
North Lakhimpur .	0830	102	1018·8	1006·8	+0·3	15·8	14·0	12·5	14·5	81	−3	2·0	−1·6	3·9	0	0	25	5	8	8	2	2	0	0	0	6	0
	1130	,,	1016·6	1004·8		20·9	16·0	12·2	14·2	57		2·1	.	5·7	0	0	30	3	6	13	4	4	0	0	0	1	0
	1430	,,	1014·1	1002·4		22·5	16·4	11·7	13·7	51		2·4	.	1·1	0	0	26	6	6	5	2	2	2	3	0	5	0
	1730	,,	1014·9	1002·9	..	17·1	15·1	13·7	15·7	80	..	2·5	..	2·4	0	0	14	6	3	0	0	0	1	1	3	17	0
Sibsagar .	0830	97	1018·8	1007·3	+0·4	15·2	14·1	13·2	15·2	89	−4	4·1	−2·0	2·0	0	0	16	11	3	1	0	0	1	0	0	15	0
	1730	,,	1014·3	1008·3	.	21·0	16·8	13·7	15·7	64		2·2	.	1·5	0	0	11	9	1	0	0	1	0	0	0	20	0
Gohpur	0830	83		..		14·3	13·4	12·7	14·7	90		2·2	.	2·1	0	0	23	2	8	5	7	0	0	0	1	8	0
	1730	,,				18·7	15·9	14·5	16·5	73		3·2		1·6	0	0	17	6	6	0	2	2	0	0	1	14	0
Majbat . . .	0830	,,	.	.	..	17·3	14·8	12·9	14·9	75	.	1·8	..	1·9	0	0	21	1	2	12	4	2	0	0	0	10	0
	1730	,,	.		..	19·2	16·0	13·6	15·6	73		1·4	..	0·4	0	0	6	1	2	1	0	2	0	0	0	25	0
Jorhat (Aerodrome)	0530	90	1016·1	1005·4	.	10·5	10·4	10·3	12·5	99	.	2·4	.	0·3	0	0	1	0	0	0	1	0	0	0	0	30	0
	0830	,,	1018·3	1007·7		15·0	14·0	13·2	15·2	88		3·1	.	0·8	0	0	4	0	2	1	0	0	0	0	1	27	0
	1130	,,	1016·2	1005·8		21·0	16·5	13·1	15·1	62		1·6		5·7	0	0	25	2	13	6	0	0	1	1	0	6	2
	1730	,,	1014·3	1003·8	..	17·9	15·2	13·1	15·1	75		1·8	.	0·8	0	0	3	0	3	0	0	0	0	0	0	28	0
	2330	,,	1013·2	1002·5	..	12·7	12·3	12·0	14·0	95	.	1·5		0·7	0	0	3	0	1	1	1	0	0	0	0	28	0
Tezpur	0830	78	1017·9	1008·6		14·9	13·7	12·7	14·7	85	.			0·1	0	0	2	0	0	0	2	0	0	0	0	29	0
	1730	,,	1014·1	1004·9	..	21·2	18·2	16·2	18·4	71			..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Tezpur . .	0830	79	1018·8	1009·4	−0·1	14·4	13·2	12·2	14·2	87	−1	1·7	−1·0	2·5	0	0	29	2	15	4	1	1	0	0	0	8	0
	1730	,,	1014·6	1005·4	..	20·1	16·3	13·5	15·5	65	.	0·9	.	1·2	0	0	10	1	9	0	0	0	0	0	0	21	0
Golaghat	0830	95	1018·6	1007·3	..	15·4	13·9	12·6	14·6	84	..	(a) 3·2	..														
	1730	,,	1013·6	1002·5	..	21·7	17·2	14·0	16·0	61		(f) 2·3															
Rangia .	0830	60	1019·2	1012·2		17·2	15·2	13·7	15·7	80		(a) 0·2		(a) 4·7	0	0	28	0	4	21	3	0	0	0	0	2	0
	1730		1015·5	1008·6		20·4	17·4	15·4	17·5	73		(a) 0·2		(a) 0·7	0	0	7	0	3	3	0	0	0	1	0	23	0
Chaparmukh . .	0830	66	1019·2	1011·4		15·9	14·3	13·1	15·1	83	.	0·8	.	4·1	0	0	31	0	3	7	14	4	1	0	2	0	0
	1730	,,	1015·6	1007·9	.	21·2	17·4	14·8	16·8	66	..	(a) 0·5		(a) 2·9	0	0	27	2	10	5	0	2	4	0	4	3	0
Gpalpara .	0830	38	1019·2	1014·5	..	14·4	13·0	11·8	13·8	84	..	0	..	0·4	0	0	6	1	2	1	0	0	0	0	2	25	0
	1730	,,	1015·0	1010·5	.	21·1	18·7	17·2	19·6	76	..	0·3	..	0·1	0	0	2	0	0	1	0	0	0	0	1	29	0
Gauhati* . .	0830	..	..	..	..	.	.	.	.	.	.	.															

(a) Mean of 30 days. *Data not reliable. (f) Mean of 25 days (R) Register not received.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1965 (PAUSA 11—MAGHA 11 1886 SAKA)

Sub-Division and station	Hour of observation I S T	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g p m of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km per hour	Wind speed (km p h): 62 or more	Wind speed (km p h): 20 to 61	Wind speed (km p h): 1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
North Assam (Including NEFA)—(*Contd*)																											
Gauhati (Bhorjor)	0230	54	1015 6	1009 1		11 9	11 7	11 5	13 6	96		0 5		0 8	0	0	6	0	0	0	0	3	1	1	1	25	0
	0530	,,	1016 0	1009 4		10 7	10 7	10 7	12 9	100		0 6		0 3	0	0	2	0	1	0	0	1	0	0	0	29	0
	0830	,,	1018 3	1011 8	+0 1	15 5	14 4	13 5	15 5	88	+1	0 8	−1 2	1 3	0	0	10	1	6	0	1	1	1	0	0	21	0
	1130	,,	1016 2	1009 9	.	21 3	16 9	13 3	15 3	51		0 9		5 5	0	0	29	8	8	3	0	0	0	1	9	2	0
	1430	,,	1013 1	1006 9		24 1	16 9	11 3	13 4	15		1 6		6 0	0	0	29	6	11	0	0	0	1	3	8	2	0
	1730	,,	1014 0	1007 7		19 1	16 2	14 1	15 1	73		2 3		1 9	0	0	14	2	5	2	0	1	2	2	0	17	0
	2030	,,	1016 5	1009 8	.	14 8	11 1	10 3	15 1	92		0 7		1 1	0	0	7	1	0	0	1	3	0	0	2	24	0
	2330	,,	1016 3	1009 9		15 3	12 8	12 1	14 1	91		0 7		0 1	0	0	1	0	0	0	0	1	0	0	0	30	0
Dhubri (Rupsi)	0530	45	1015 7	1010 2		10 2	9 8	9 4	11 8	96		0 5		2 6	0	0	13	0	11	2	0	0	0	0	0	18	0
	0830	,,	1017 7	1012 3		15 4	13 9	12 6	14 6	84		0 3		1 5	0	0	22	0	16	3	1	0	2	0	6	9	0
	1130	,,	1016 4	1011 2	.	22 1	16 6	12 9	14 9	56		0 3		6 8	0	0	25	0	7	12	1	1	3	0	1	6	0
	1730	,,	1013 4	1008 1	..	19 9	17 5	15 9	18 1	78		0 7		0 8	0	0	5	0	3	0	0	0	2	0	0	26	0
Dhubri	0830	35	1018 5	1014 3	+0 6	15 3	14 1	13 0	15 0	85	+1	0	−1 7	5 3	0	0	29	2	16	6	3	0	2	0	0	2	0
	1730	,,	1014 6	1010 5	.	20 4	16 2	13 0	15 0	62		0		0 5	0	0	6	0	6	0	0	0	0	0	0	25	0
Lumding	0830	149	1018 2	1000 4		12 1	11 5	10 9	13 0	93	+3	0 9		0 5	0	0	5	0	1	4	0	0	0	0	0	26	0
	1730	,,	1013 5	996 4	..	21 9	17 5	14 3	16 3	63		2 6		0 9	0	0	12	2	1	5	2	0	0	0	2	19	0
South Assam (Including Nagaland Manipur and Tripura)																											
Tura	0830	370	1018 6	975 4	.	14 9	12 7	11 0	13 1	76		7 8		3 5	0	0	29	0	2	20	7	0	0	0	0	2	0
	1730	,,	1014 3	972 2	..	21 8	15 8	11 5	13 6	50		6 7		5 0	0	1	27	0	0	3	2	6	7	8	1	4	0
Haflong	0830	682	1017 9	940 1		15 3	12 6	10 2	12 4	73		1 3		3 5	0	0	31	1	0	0	0	0	0	0	30	0	0
	1730	,,	1012 3	935 6		17 8	13 6	9 9	12 2	62		1 2		4 7	0	0	31	0	0	0	0	0	0	0	31	0	0
Silchar (Kumbhirgram)	0530	97	1014 7	1003 1	..	12 1	11 0	10 0	12 3	86		1 5		8 2	0	0	31	0	0	31	0	0	0	0	0	0	0
	0830	,,	1016 7	1005 3	..	16 1	13 3	11 0	13 1	72		1 4	.	9 8	0	0	31	0	0	31	0	0	0	0	0	0	0
	1130	,,	1014 4	1003 3	..	22 4	15 9	10 7	12 9	47	..	1 2		7 3	0	0	31	0	2	18	7	3	0	1	0	0	0
	1730	,,	1012 7	1001 5		20 4	15 6	11 8	13 8	58		1 5	..	3 9	0	0	23	8	1	6	0	2	1	5	0	8	0
Silchar	0830	29	1018 0	1014 3	0	15 8	14 1	12 7	14 7	82	−1	1 3	−0 5	1 3	0	0	19	0	5	8	4	0	1	1	0	12	0
	1730	,,	1013 8	1010 4	..	21 3	17 1	13 9	15 9	62		1 6	..	0 2	0	0	3	0	1	1	0	0	0	1	0	28	0
Imoha (Tulihal)	0530	781	1020 4	928 6	..	5 4	4 9	4 3	8 3	93		2 8		0 1	0	0	3	1	0	0	0	1	0	0	1	28	0
	0830	,,	1020·4	930 5	+0 2	11 5	9 3	7 2	10 1	76	0	2 5	+0 3	1 5	0	0	11	0	1	4	3	1	0	2	0	20	0
	1130	,,	1016 1	928 4	.	18 0	12 3	7 3	10 2	49		2 9	.	5 3	0	1	22	1	2	4	2	0	8	4	1	8	1
	1430	,,	1012 5	925 9		20 3	12 6	5 5	9 0	38		3 1		8 5	0	1	27	1	0	2	4	7	6	5	3	3	0
	1730	,,	1014 7	926 4	.	15 4	11 3	7 6	10 4	59	..	3 1		7 4	0	0	25	0	0	0	3	0	2	8	12	6	0
	2030	,,	1018 1	928 5		11 4	9 5	7 7	10 5	78	..	2 2		3 2	0	0	13	2	1	0	2	0	2	4	2	18	0
	2330	,,	1019 4	928 8		8 8	7 8	6 8	9 9	87		2 5		2 4	0	0	11	1	4	0	0	0	1	1	4	20	0
Kailashahar	0530	30	1016 5	1013 0	.	10 6	10 3	10 0	12 3	95		1 3		0 4	0	0	5	0	1	0	2	2	0	0	0	26	0
	0830	,,	1018 2	1014 8	.	15·0	13 5	12 3	14 3	83		1 0		1 4	0	0	13	1	0	0	0	7	3	1	1	18	0
	1130	,,	1016 6	1013 2	..	23 4	17 8	13 9	15 9	56	.	1 6		2 8	0	0	26	4	8	3	3	3	1	3	1	5	0
	1730	,,	1014 3	1010 9	.	21 2	17 4	14 8	16 8	68		1 6		0 1	0	0	1	0	0	0	0	1	0	0	0	30	0
Agartala	0230	16	1014 5	1012 6	.	12·4	11 7	11 1	13 2	92		1 2		0 6	0	0	5	0	0	1	4	0	0	0	0	26	0
	0530	,,	1014·7	1012 8		11 0	10 5	10 0	12 3	93		1 4		1 0	0	0	6	0	0	0	4	2	0	0	0	25	0
	0830	,,	1016 9	1015 0	+0 4	17 5	15 3	13 6	15 6	78	−1	1 5	−0 3	1 8	0	0	11	3	2	1	1	4	0	0	0	20	0
	1130	,,	1015·4	1013 6	.	24 3	17 1	11 6	13 7	45		1 4		6 5	0	0	29	3	1	1	2	1	2	5	14	2	0
	1430	,,	1012 9	1011 1		25 3	16 8	10 0	12 3	38		2 6		7 3	0	0	29	2	0	1	1	1	1	7	16	2	0
	1730	,,	1013 5	1011·6	.	21·1	16 3	12 7	14 7	59		2 1	.	1 8	0	0	13	4	0	0	0	0	0	2	7	18	0
	2030	,,	1015 4	1013 5		16 2	14 3	12 8	14 8	81	.	1 2		1 3	0	0	7	1	2	2	0	0	0	2	0	24	0
	2330	,,	1015 4	1013 5		14 0	13 0	12 2	14 2	89		0 9	.	1 0	0	0	7	1	0	0	5	0	0	0	1	24	0
Sub-Himalayan West Bengal.																											
Bagdogra	0230	131	1015 6	999·9		10 7	10 0	9 3	11 7	91		0 5		1 2	0	0	7	5	1	0	0	0	0	0	1	24	0
	0530	,,	1015 7	999 9		10 0	9 5	9 0	11 5	93		0 4		2 7	0	0	12	6	2	1	1	0	0	1	1	19	0
	0830	,,	1017 8	1002 3	+0 2	15 5	13 7	12 2	14 2	81	0	1 2	−1 1	1 0	0	0	8	4	3	0	1	0	0	0	0	23	0
	1130	,,	1016 6	1001 4	.	22 7	16 4	11 5	13 6	49	.	1·5		5 9	0	0	26	1	4	8	8	4	1	0	0	5	0
	1730	,,	1013 9	998 6	.	20 0	16 1	13 2	15 2	65		2 6		1 5	0	0	8	0	0	2	0	1	3	2	0	23	0
	2330	,,	1016 4	1000 7		12 6	11 7	10 9	13 0	90	.	1 2		3 0	0	0	17	12	3	0	0	0	0	1	1	14	0
Jalpaiguri	0830	83	1017 8	1007 9	+0 1	12 8	12 1	11 5	13 6	91	+5	0 9	−0 5	1 8	0	0	16	8	2	0	0	0	0	0	6	15	0
	1730	,,	1013 6	1004 1		22 1	16 3	11 8	13 8	52	.	0 6		1 1	0	0	6	0	1	0	1	0	3	1	0	25	0
Cooch Behar	0830	43	1018 2	1013 1		15·4	14 0	12 9	14 9	85		0 6		4 4	0	0	26	0	6	19	1	0	0	0	0	5	0
	1130	,,	1016 7	1011 7		22 4	17 0	13 0	15 0	56	.	0 5		8 0	0	0	30	0	2	20	4	0	1	2	0	1	1
	1730	,,	1014 3	1009 3		19 9	16 5	14 0	16 0	69	.	0 9		0	0	0	0	0	0	0	0	0	0	0	0	31	0
Balurghat	0830	26	1016 6	1013 5		16 9	13 9	11 4	13 5	70		0 6		1 7	0	0	19	5	2	3	1	0	1	3	4	12	0
	1730	,,	1013 2	1010 2		20 9	16 6	13 5	15 5	63		0		0 5	0	0	6	0	0	1	0	0	1	0	4	25	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km per hour	Wind speed (km. p h.): 62 or more	Wind speed (km. p h.): 20 to 61	Wind speed (km. p h.): 1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Sub-Himalayan West Bengal—(Contd)																											
Malda	0830	31	1018 2	1011 4	−0 5	17 2	13 8	10 9	13 0	66	−6	1 0	0	2 1	0	0	22	8	3	1	0	0	0	3	7	3	0
	1730	,,	1014 1	1010 4		22 4	16 0	10 9	13 0	49		1 4		1 7	0	0	19	2	1	1	0	0	0	2	13	12	0
Gangetic West Bengal																											0
Berhampore	0830	19	1017 4	1015 3	−0 2	16 4	14 0	12 0	14 0	76	−1	1 3	−0 5	0 5	0	0	7	1	0	1	0	2	0	3	0	24	0
	1730	,	1012 8	1001 6		22 0	17 1	13 6	15 6	60		0 6		0 4	0	0	1	0	0	0	0	0	0	0	1	30	0
Suri	0830					18 7	13 8	9 5	11 9	56		0 6		2 8	0	0	31	7	1	0	0	5	0	11	4	0	0
Asansol	0230	1	1016 1	1001 1		13 0	10 9	8 9	11 4	76		0 7	,	1 5	0	0	14	3	0	0	0	0	0	4	6	18	0
	0530	,,	1016 1	1001 4		12 4	10 8	9 2	11 6	81		1 3		2 1	0	0	14	0	0	0	0	0	0	6	8	17	0
	0830		1018 1	1003 5	−0 8	17 3	13 5	10 2	12 1	63	−3	1 0	−0 9	5 2	0	0	27	0	1	0	0	0	0	10	16	4	0
	1130	,,	1017 0	1002 5		24 5	15 8	8 9	10 9	36		0 9		8 8	0	0	31	0	4	1	0	1	1	2	16	0	0
	1430	,,	1013 9	999 6		26 1	16 0	7 0	10 0	30		1 7	,	9 9	0	0	30	3	3	0	1	0	2	3	18	1	0
	1730	,	1014 3	997 7		22 0	15 1	9 1	11 5	44		1 5	,	4 3	0	0	21	2	0	0	1	1	0	2	15	10	0
	2330	,,	1016 9	1001 9		14 4	11 7	9 1	11 5	71	..	1 0		3 0	0	0	17	1	0	0	0	1	0	3	9	14	0
Shanti Niketan	0830	59	1018 4	1011 4		17 6	14 0	11 0	13 1	65		1 3		3 2	0	0	23	6	0	0	1	0	0	5	11	8	0
	1130	,,	1017 3	1010 5	,	24 0	16 2	9 8	12 1	41		1 2	,	4 1	0	0	30	12	5	2	0	0	1	2	8	1	0
	1730	,,	1014 3	1007 5		21 0	15 3	10 6	12 8	52		1 3		2 6	0	0	19	5	2	0	0	2	1	3	1	12	0
Krishnanagar	0830	15	1017 7	1016 0	+0 3	17 6	14 5	12 0	14 0	69	−4	0 7	−0 6	0 4	0	0	3	2	0	0	1	0	0	1	1	26	0
	1730	,	1013 9	1012 3		23 0	17 5	13 6	15 6	55		1 0		0	0	0	0	0	0	0	0	0	0	0	0	31	0
Puruha	0830	255	1018 7	989 0	+0 6	16 8	12 9	9 3	11 7	62	+2	2 7	+1 1	3 1	0	0	26	4	0	0	0	0	1	15	6	5	0
	1730	,,	1014 2	985 3		23 1	16 3	10 9	13 0	16		2 5		2 0	0	0	19	7	1	1	0	1	0	3	6	12	0
Bankura	0830	100	1017 9	1006 9		17 0	13 3	10 0	12 3	61		1 1		0 8	0	0	13	3	2	0	0	0	0	4	4	18	0
	1730	,,	1013 8	1002 3		25 8	16 3	10 3	12 5	43		0 8		0 4	0	0	6	2	0	0	0	0	0	1	3	25	0
Burdwan	0830	32	1018·0	1014 2	+0 4	18 7	14 5	11 0	13 1	61	−9	1 0	−0 8	1 2	0	0	14	3	2	0	0	1	0	2	6	17	0
	1730	,	1014 1	1010 4		24 0	16 4	10 3	12 5	19		0 6	,	0 5	0	0	7	1	0	0	0	0	0	1	5	24	0
Barackpore (Aerodrome)	0530	7	1015 8	1015 0		13 1	12 3	11 6	13 7	91	,	1 0	,	1 2	0	0	8	0	3	2	0	0	0	1	2	23	0
	0830	,	1017 9	1017 2	+0 6	18 1	15 2	12 9	14 9	72	−2	1 5	−0 5	2 6	0	0	13	5	0	1	0	0	0	0	7	18	0
	1130	,,	1016 7	1015 0		21 1	17 3	11 9	13 9	17		1 1		8 3	0	2	28	12	2	1	2	0	1	3	9	1	0
	1730	,,	1014 3	1013 5	,	22 2	18 2	15 5	17 6	66		1 8	,	1 3	0	0	10	2	0	0	0	0	2	0	6	21	0
	2330	,,	1016 4	1015 6		13 5	14 4	13 5	15 5	88	,	0 3		0 1	0	0	1	0	0	0	0	0	0	0	1	30	0
Calcutta (Dum Dum)	0230	6	1015 0	1014 3		14 5	13 9	13 1	15 1	91		1 1		0 6	0	0	7	2	2	0	0	0	1	1	1	24	0
	0530	,,	1015 4	1014 7		13 6	13 0	12 5	14 5	94		1 2		1 0	0	0	11	3	2	0	1	0	2	0	3	20	0
	0830	,,	1017 7	1017 0	+0 4	17 8	15 3	13 1	15·1	75	+2	1 5	−0 1	1 7	0	0	14	5	2	0	1	0	1	0	5	17	0
	1130	,	1016 6	1015 9		24 6	17 5	12 9	14 3	47		1 8		5 1	0	0	31	8	2	1	2	0	3	0	14	0	1
	1430	,,	1013 8	1013 1		26 1	18 3	12 7	11 7	44		2 4		1 6	0	0	29	7	1	2	1	1	3	1	13	2	0
	1730	,,	1014 1	10 3 1		22 9	18 0	14 7	16 7	60		2 6	,	0 3	0	0	3	1	0	0	0	0	0	0	2	26	0
	2030	,,	1015 9	1015 2		17 9	16·2	15 0	17 0	83		1 0	,	0 6	0	0	7	1	2	0	1	1	1	1	0	24	0
	2330	,,	1015 9	1015 2		15 9	14 8	13 9	15 9	88		1 3	,	0 9	0	0	9	2	2	0	1	1	2	1	0	22	0
Calcutta	0830	6	1017 4	1016 6	−0 1	19 1	15 6	12 9	14 9	67	−15	1 2	−0 6	2 1	0	0	18	4	1	1	0	1	0	1	10	13	0
	1130	,,	1016 1	1015 1		25·3	17 1	10 7	12 9	40		1 1		3·9	0	0	26	7	2	4	0	1	1	2	9	5	0
	1730	,,	1013 8	1013·0		22 8	16 9	12 5	14 5	52	,	2 0		1 2	0	0	14	2	0	0	2	1	2	1	6	17	0
Midnapore	0830	45	1017 8	1012 5	+0 3	19 3	14 6	10 7	12 9	57	−7	1 0	−0 8	1 7	0	0	22	7	13	0	0	0	1	0	0	9	1
	1730	,,	1013 8	1008 6	,	24·6	16 7	10 4	12 6	42		1 5	,	1 4	0	0	19	8	6	0	1	1	1	0	2	12	0
Contai	0830	11	1017 6	1016 8	+0 8	19 2	16 1	13 8	15·6	71	−1	1 3	+0 3	3 5	0	0	28	24	1	1	0	1	0	1	0	3	0
	1730	,,	1014 0	1012 8	,	22 8	17 9	14 5	16 5	60	,	1 3	,	2 6	0	0	22	1	1	0	5	15	0	0	0	9	0
Sagar Island	0830	3	1016·9	1016 5	−0 3	20 3	17 9	16 3	18 5	78	−2	1 8	−0 4	8 6	0	0	30	12	11	1	0	1	0	0	5	1	0
	1730	,,	1013 6	1013 3		22 8	18 3	15 3	17 4	63	,	2 4	,	7 4	0	0	31	5	4	2	2	6	8	1	3	0	0
Sandheads	0550	10	1015 0	1013 9		22 1	18 9	16 9	19 3	73	,	1 9	..	7 5	0	0	22	9	9	1	2	0	0	0	1	9	0
	0830	,,	1017 2	1016 1	0	23 9	19 7	17 1	19 5	66	+3	1 7	−0 1	9 2	0	3	25	14	11	1	0	0	0	0	2	3	0
	1130	,,	1016 6	1015 5	,	27 2	20 6	16 6	18 9	53		1 7		8 6	0	5	18	12	6	2	0	0	0	1	2	8	0
	1730	,	1014 5	1013 4		33 8	19 1	16 1	18 3	61		2 1	,	5·0	0	0	15	3	4	2	2	0	0	2	2	16	0
	2330	,	1015 7	1014 6		22 4	19 0	16 9	19 3	71	,			4 2	0	1	13	4	5	1	2	1	1	0	0	17	0
Orissa																											
Baripada	0830	54	1018 9	1012 5		17 7	14 4	11 7	13 7	67		1 3		2 5	0	0	25	12	9	0	0	1	0	0	3	6	0
	1730	,,	1014 9	1008 6		23 4	17 1	12 4	14 4	50		2 5		0 2	0	0	3	0	1	0	0	1	0	0	1	28	0
Jharsuguda	0230	230	1015 7	988 5		11 4	12 5	10 8	12 9	79	,	0 8		0 6	0	0	4	2	1	0	0	0	0	1	0	27	0
	0530	,,	1016·1	988 9		13 2	11 8	10 5	12 7	88		1 6		0 6	0	0	3	2	0	1	0	0	0	0	0	28	0
	0830	,,	1018·1	991 2	+0 7	17 0	13 5	10 5	12 7	65	−3	2·2	+0·7	6 5	0	0	24	5	14	4	0	0	1	0	0	7	0
	1130	,,	1016 8	990 6	,	24 0	15 8	8 8	11 3	39		1 5		6 2	0	0	25	6	7	5	0	0	1	4	2	6	0
	1730	,	1013·5	987 4	..	24 2	16 2	9 6	11 9	11		3 0		2 9	0	0	12	2	2		0	1	3	3	0	19	0
	2330	,,	1016 3	989 4	,	16 7	13 7	11 2	13 3	70		0 9		1 3	0	0	7	2	3	0	1	0	1	0	0	24	0

Sub-Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas)		Mean wind speed, in km per hour	Wind speed (km. p h.)			No. of observations									
			At mean sea level or height in g p m of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point				Mean amount	Departure from normal		62 or more	20 to 61		Wind direction									
																		N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa (Contd)—																											
Keonjhargarh	0830	463	1018 2	963 6	..	19 3	16 1	13 7	13 7	72	.	1 2		1 9	0	0	0	11	5	3	0	0	0	4	7	1	0
	1740	,,	1013 4	961 7	.	23 1	18 9	16 2	18 4	67	..	1 8		1 3	0	0	21	2	1	0	0	2	3	8	5	10	0
Balasore	0830	20	1017 8	1015 4	+0 2	18 8	15 0	12 0	14 0	64	−8	2·1	+0 3	5 3	0	0	21	22	2	0	0	1	1	0	5	0	0
	1730	,,	1013 9	1011 7		22 8	17 9	14 3	16 3	39	.	2 9		3 1	0	0	23	0	0	1	8	15	1	0	0	6	0
Sambalpur	0830	148	018 0	1000 6	−0 3	18 8	15 1	12 2	14 2	67	−4	1·9	+0 1	2 7	0	0	23	5	10	2	0	1	1	0	4	8	0
	1730	,	1014 8	997 6		22 8	16 9	12 9	14 5	52	.	1 6		0 2	0	0	3	0	0	0	0	0	1	0	2	28	0
Angul	0830	139	1018 1	1001 8	−0 6	17 9	15 3	15 3	15 3	74	−1	2 .	0	3 9	0	0	30	1	1	0	0	1	1	18	8	1	0
	1720	,,	1014 0	998 2		25 1	18 1	15 1	15 1	49		2 6		3 3	0	0	29	13	2	2	1	4	1	4	2	2	0
Chandbali	0830	6	1017 7	1016 9	0 1	20 1	16 9	14 7	16 7	72	−3	1 8	0	3 9	0	0	29	8	2	0	0	0	0	0	19	2	0
	1730	,	1014 0	1013 .		23 3	18 3	14 9	16 9	60	.	2 3		4 9	0	0	29	0	9	9	0	0	1	0	0	2	0
Bolangir	0830	,	1017 8	995 6		18 9	15 9	13 7	15 7	77		2 3		3 5	0	0	31	12	5	1	2	4	1	1	5	0	0
	1730	,	1011 0	992 0		21 7	18 2	13 7	15 7	52		2 2		3 2	0	0	31	8	7	3	3	3	2	0	3	0	0
Phulbani	0830	464	1016 6	963 .		15 4	13 7	12 5	14 5	82		1·2		0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1018 8	960 0		22 .	17 3	14 1	16 1	59		1 3		0	0	0	0	0	0	0	0	0	0	0	0	31	0
Cuttack	0830	27	1017 7	1014 6	+0 2	19 3	17 2	15 8	17 9	80	+2	2 0	0	1 7	0	0	14	2	3	0	0	0	1	3	5	17	0
	1730	,,	1013 8	1010 8		26 7	20 1	16 0	18 2	52		2 5		1 5	0	0	10	0	1	3	2	0	0	4	0	21	0
Titlagarh	0830	211	1018 2	993 7		18 2	16 1	14 6	16 6	76		0 8		1 2	0	0	19	1	2	3	8	3	0	0	1	13	0
	1730	,,	1013 7	989 8		25 3	18 8	14 4	16 4	53		1·2		1 4	0	0	20	5	11	1	0	0	1	0	2	11	0
Bhubaneswar	0230	16	1015 0	1009 6		18 0	16 6	15 6	17 7	86		0 5		3·5	0	0	18	7	1	1	2	0	0	0	7	13	0
	0530	,	1015 3	1009 9		16 9	15 8	15 1	17 1	89		0 9		4 9	0	0	28	8	5	0	0	1	1	6	7	3	0
	0830	,,	1017 9	1012 5	+0 9	21 6	18 1	15 8	17 9	70	0	2 1	+0 3	6 1	0	1	25	10	6	1	0	0	0	1	8	5	0
	1130	,	1016 8	1011 5		26 2	18 5	13 1	15 1	44		2 6		7 9	0	0	30	4	8	7	0	1	3	2	3	1	0
	1430	,,	1013 8	1008 6		27 8	18 4	11 5	13 6	37		3 3		7 9	0	0	30	3	6	9	2	1	1	2	5	1	1
	1730	,	1014 1	1008 7		25 4	18 2	13 1	15 1	47		2 7		7 4	0	1	28	5	3	9	6	2	2	0	2	2	0
	2330	,	1016 2	1010 8		19 7	17 6	16 2	18 4	81		1 0		4 8	0	0	27	2	1	3	3	6	4	5	3	4	0
Puri	0830	6	1017 7	1016 9	+0 6	21 3	18 4	16 5	18 8	75	−2	2 3	+0 5	6 8	0	0	31	27	3	0	0	1	0	0	0	0	0
	1730	,	1014 1	1013 4		24 4	20 2	17 7	20 2	67		3 0		8 6	0	0	30	0	1	3	12	9	5	0	0	1	0
Gopalpur	0530	17	1015 1	1013 1		17 7	16 2	15 1	17 1	85		1·3		4 7	0	0	28	11	0	0	0	0	0	0	17	3	0
	0830	,,	1017 7	1015 7	+0 7	20 6	17 4	15 2	17 3	72	−2	2 2	+0·8	6 0	0	0	29	14	0	0	0	0	0	0	15	2	0
	1130	,,	1017 0	1015 0	.	26 7	20 8	17 3	19 7	57		2 5		5·7	0	0	29	4	2	8	10	4	0	0	1	2	0
	1730	,,	1014 1	1012 1		24 8	20 7	18 3	21 0	67	.	2 7		7 8	0	0	31	0	0	7	20	3	1	0	0	0	0
	2330	,,	1016 1	1014 1		20 6	18 6	17 4	19 9	82	.	1 3		1 8	0	0	11	2	1	1	0	0	1	3	3	20	0
Koraput (R)	0830	913																									.
	1730				.									.													.
Bihar Plateau (R)																											
Dumka	0830	149	1018 4	1000 9	+0 5	16 4	12 9	9 7	12 0	65	−1	0 7	−0 7	2 3	0	0	15	2	2	0	4	1	1	1	4	16	0
	173'		1014 1	997 0		22 1	15 3	10 0	12 3	46		0 5		2 0	0	0	12	0	1	0	2	1	1	2	5	19	0
Daltonganj	083(	221	1019 7	993 7	+1 3	14 6	12 1	9 8	12 1	73	−7	1 5	−0 1	1 7	0	0	24	0	6	1	5	3	6	0	3	7	0
	1730	,,	1013 2	988·0		22 9	15 5	9 2	11 6	43		0 9		2 6	0	0	30	6	6	0	0	1	6	4	9	1	0
Hazaribagh	0830	611	1018 1	948 0	+0 5	15 0	11 0	7 3	10 2	60	0	1 5	−0 4	4·2	0	0	17	1	0	1	1	1	0	2	11	14	0
	1730		1014 3	945 3		19 0	12 4	6 4	9 6	44		1 7	..	7 9	0	0	29	4	1	0	1	0	0	0	23	2	0
Dhanbad	0830	257	1017 8	987 8		17 4	12 9	8 7	11 2	57		0 6		1 3	0	0	14	2	0	0	0	0	0	10	2	17	0
	1730	,,	1013 7	984 4	.	22 9	15 2	8 5	11 1	42	.	0 4		1 1	0	0	9	0	0	0	0	0	3	5	3	22	1
Ranchi	0830	655	1017 9	942 1	0	13 0	8 7	4 1	8 2	54	−5	1 3	−0 8	1·3	0	0	20	1	1	1	0	1	0	0	16	11	0
	1730	,,	1013 1	939 7		20 4	13 4	7 4	10 3	46		1 8		1 7	0	0	26	4	2	3	0	1	0	0	16	5	0
Ranchi Aerodrome	0530	652	1016 7	941 4		12 4	9 5	6 3	9 5	68		1 5		5 1	0	0	24	9	1	1	0	1	0	7	5	7	0
	0830	,,	1018 2	943 6	.	15 5	11 1	6 5	9 7	58	..	1 7		4 8	0	0	23	9	1	1	0	0	2	4	6	8	0
	1130	,,	1016 2	943 0		20 8	12 8	4 4	8 4	37		1 7		11 4	0	5	23	8	1	3	1	1	1	7	6	3	0
	1430	,	1013 0	940 4		22 5	13 3	3 5	7 9	32		2 2		14 0	0	9	19	8	0	1	1	1	2	7	8	3	0
	1730	,	1013 6	940 6		20 9	12·8	4 3	8 3	37	.	2 1		10 4	0	3	27	11	1	4	0	1	1	4	8	1	0
Jamshedpur	0830	129	1017 9	1002 7	−0 1	15 2	13 0	11 1	13 2	76	+2	1 8	−0 1	1 1	0	0	16	2	0	0	1	0	0	1	12	15	0
	1730	,,	1010 2	995 5		24 0	16 9	11 5	13 6	46	..	1 6		1 1	0	0	13	2	2	2	0	0	1	2	4	18	0
Jamshedpur (P B O)	0530	142	1016 2	999 3	..	13 0	11 5	10 1	12 9	83	..	0 8		1 1	0	0	7	0	0	0	0	2	2	1	2	24	0
	0830	,,	1018 5	1001 8		16 5	13 3	10 5	12·7	6		1 8		3 0	0	0	20	0	0	0	0	2	4	5	9	11	0
	1130	,,	1016 9	1000 7	.	23 4	15 5	9 4	11·8	41		0 9		5 0	0	0	28	1	3	0	0	2	2	10	10	3	0
	1430	,,	1013 6	997 5		25 9	16 5	8 5	11 1	34	.	2 1		6 4	0	0	29	0	2	0	0	1	3	10	13	2	0
	1730	,	1013 8	997 5		23 6	16 3	10 4	2·6	44		1 8	..	1 4	0	0	10	0	0	3	1	1	0	1	4	21	0
	2330	,,	1016 4	999 8	.	15·9	13·4	11 5	13 4	74	..	1 3		1 7	0	0	11	0	1	0	0	2	1	0	7	20	0
Chaibasa	0830	226	1018 3	991 7	+0 6	15 9	13 4	11 3	13 4	72	−4	2 1	+0 1	2 5	0	0	23	0	0	0	0	0	23	0	0	8	0
	1730	,,	1013·3	987 6	..	28 8	17 2	12 3	14 3	49		2 0		0 3	0	0	4	0	1	0	0	0	2	0	1	27	0

(R) Register not received

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km p h): 62 or more	Wind speed (km p h): 20 to 61	Wind speed (km p h): 1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plains																											
Motihari .	0830	66	1017 8	1009 9	+0 5	14 1	12 7	11 5	13 6	84	+6	0 8	—1 2	2 7 (b)	0	0	25	4	1	8	0	1	1	4	6	6	0
	1730	,,	1014 1	1006 4		19 4	15 7	12 9	14 9	67		0 2		0	0	0	0	0	0	0	0	0	0	0	0	29	0
Forbesganj .	0830	61	1017 9	1010 7	.	14 2	12 7	11 4	13 5	88		1 0		1 7	0	0	23	0	4	10	0	0	0	7	2	8	0
	1730	,,	1014 0	1007 0		20 5	15 9	12 3	14 3	59		1 0		1 2	0	0	15	0	0	1	0	0	0	14	0	16	0
Darbhanga	0830	49	1018 8	1013 1	+1 2	17 7	14 4	11 7	13 7	69	—13	0 6	—1 0	1 ∪	0	0	12	0	0	2	0	0	3	4	3	19	0
	1730	,,	1015 7	1009 9		22 4	16 5	12 0	14 0	52	.	0 3		0 5	0	0	5	0	0	0	0	0	0	3	2	26	0
Chapra .	0830	58	1018 1	1011 2	.	14 3	12 1	10 1	12 3	76	.	1 2		2 1	0	0	26	0	2	1	0	0	16	4	3	5	0
	1730	,,	1015 5	1008 8		19 5	15 3	12 0	14 0	63		0 1		3 2	0	0	29	0	0	1	1	0	9	13	5	2	0
Purnea . . .	0830	38	1017 8	1013 3	—0 1	13 3	12 7	10 4	12 6	73	—12	0 4	—1 0	1 3	0	0	18	0	1	2	0	1	7	7	0	13	0
	1730	,,	1014 0	1009 6		20 5	15 8	12 1	14 1	59	.	0 6		1 0	0	0	13	0	0	0	0	0	8	5	0	18	0
Patna . . .	0830	53	1018 0	1011 7	—0 1	14 6	12 4	10 4	12 6	76	+5	1 2	—0 5	5 5	0	0	28	0	1	1	2	2	17	5	0	3	0
	1730	,,	1014 4	1008 3	.	21 5	15 6	10 8	12 9	51	.	1 2		4 4	0	0	28	0	3	1	0	2	0	21	1	3	0
Patna Aerodrome .	0530	60	1015 5	1008 3		10 9	9 7	8 5	11.1	86		0 6	.	2 3	0	0	14	0	0	0	1	0	6	4	3	17	0
	0830	,,	1017 7	1010 6		15 1	12 3	9 7	12 0	71		1 5	.	5 7	0	1	24	0	1	1	2	0	11	9	1	6	0
	1130	,,	1017 2	1010 2	..	21 9	15 1	9 3	11 7	45		1 2		9 8	0	2	27	1	2	0	2	0	3	12	8	2	1
	1430	,,	1014 2	1007 3		24 0	15 5	8 1	10 8	36		1 7		13 1	0	6	23	1	1	1	1	0	3	7	15	2	0
	1730	,,	1014 2	1007 2	.	20 8	15 9	10 8	12 9	53		1 4	.	2 5	0	0	15	0	0	0	0	0	0	6	9	16	0
	2330	,,	1016 1	1009 1	.	13 4	11 7	10 1	12 3	81	.	0 2		1 1	0	0	6	0	1	0	0	0	0	4	1	25	0
Bhagalpur . .	0530	49	1016 1	1010 2		13 4	11 3	9 3	11 7	80		0 7		3 4	0	0	22	0	0	2	0	10	9	0	1	9	0
	0830	,,	1018 3	1012 5	+0 3	16 1	12 9	10 0	12 3	67	—9	1 3	—0 4	3 2	0	0	25	1	1	2	1	4	9	1	1	6	0
	1130	,,	1017 6	1011 8	.	21 4	15 6	10 9	13·0	51	.	1 2		6 2	0	1	29	1	0	2	2	3	5	12	5	1	0
	1730	,,	1014 5	1008 9		20 3	15 1	10 8	12 9	55	.	1 2	..	5 3	0	0	26	0	1	0	2	0	8	15	0	5	0
	2330	,,	1016 6	1010 8		15 9	13 0	10 4	12 6	70		0 5	..	3 2	0	0	20	0	1	2	0	2	8	7	0	11	0
Sabaur . . .	0830	37	1018 1	1013 7	+0 1	14 4	12 5	10 8	12 9	81	—1	1 2	—0 6	2·1	0	0	22	0	1	1	1	3	4	1	1	9	0
	1730	,,	1014 3	1009 9	.	21 3	16 3	12 5	14 5	58	.	1 1		2 3	0	0	19	1	0	0	9	0	0	7	11	12	0
Jamui	0830	82	1019 2	1009 5		15 0	13 6	12 5	14 5	87		0 2		2 3	0	0	28	1	0	18	4	1	1	6	2	3	0
	1730	,,	1019 5	1009 8		15 9	14 3	13 0	15 0	82		0		3 9	0	0	31	5	0	13	0	2	0	11	0	0	0
Dehri . .	0830	107	1018 2	1005 5	.	15 8	13 1	10 7	12 9	71		1 6	.	2 4	0	0	27	2	1	0	0	7	10	7	1	3	0
	1730	,,	1014 2	1001 8		22 6	15 2	8 7	11 2	42	..	1 3		3 7	0	0	31	4	1	2	0	0	1	15	8	0	0
Gaya . .	0230	116	1016 6	1002 7	..	11 6	10 2	8 8	11·3	83		0 1	.	0 7	0	0	10	0	0	0	1	6	2	1	0	21	0
	0530	,,	1016 6	1002 6		10 5	9 5	8 5	11 1	87	..	0 3		1 9	0	0	23	0	1	0	2	9	10	1	0	8	0
	0830	,,	1018·5	1004 7	+0 5	15 0	12 3	9 8	12 1	71	+8	1 5	—0 2	2 6	0	0	27	0	0	0	3	5	13	4	2	4	0
	1130	,,	1017 9	1004 5		22 4	15 6	9 9	12·2	45		0 9	.	7 4	0	0	28	1	0	2	2	0	8	5	15	3	0
	1730	,,	1014 7	1001 3	.	21 6	15 2	9 8	12 1	47	.	0 9		3 7	0	0	30	9	3	2	0	0	0	1	15	1	0
	2330	,,	1017·1	1003 3	.	13 7	11 4	9 2	11 6	74	.	0 1	.	1 7	0	0	20	0	0	1	4	4	9	2	0	11	0
Uttar Pradesh (East)																											
Kheri . (R)	0830	147																									
(R)	1730																										
Bahraich	0830	124	1017 4	1002 5	0	11 8	10 5	9 1	11 5	84	+3	1·5	0	3·0	0	0	17	0	0	2	1	0	0	13	1	14	0
	1730	,,	1014 9	1000 5		20 2	15 2	11 0	13·1	56	.	2 0	.	6·4	0	0	11	0	0	0	0	0	1	10	0	20	0
Nautanwa .	0830	99	1017 3	1005 4		12 0	11 1	10 3	12 5	89	.	0 9		1 2	0	0	19	1	4	3	0	2	9	1	5	12	0
	1730	,,	1014 0	1002 4	.	20 4	15 6	11 8	13 8	58	.	1 0	..	1 3	0	0	18	0	1	0	2	0	11	2	2	13	0
Hardoi	0830	142	1018 9	1001 8	+1 4	12 0	10 6	9 3	11 7	84	—2	1 0	—1 3	2 6	0	0	27	4	1	1	2	0	1	5	13	4	0
	1730	,,	1017 3	1000 7		19 4	14 7	10,4	12 6	58	..	0 8	..	2 3	0	0	26	3	2	0	2	0	0	6	12	5	0
Gonda	0830	110	1018 1	1004 9	..	13 0	11 3	9 6	11·9	80	0	1 1	—1 2	2 3	0	0	19	0	0	1	0	0	0	11	7	12	0
	1730	,,	1013 7	1001 9	..	20 1	15 3	11 4	13 5	58	.	1 0	.	0 8	0	0	9	0	0	1	0	0	0	1	7	22	0
Lucknow	0830	111	1017 3	1004 1	—0 3	13 4	11 3	9 2	11 6	76	—2	1 3	—0 5	1 4	0	0	21	0	0	1	1	0	0	14	5	10	0
	1730	,,	1014 3	1001 4		21 9	15 2	9 3	11 7	46	..	1.3		1·3	0	0	19	1	2	0	0	0	0	15	1	11	0
Lucknow (Amausi)	0230	128	1016 0	1001 0		11 2	9 2	8 0	10 7	83	..	1 4	.	4·7	0	0	25	1	3	0	2	0	1	12	6	6	0
	0530	,,	1016 2	1000 8		9 4	8 5	7·4	10 3	88	..	1 4	.	4·0	0	0	27	1	2	2	1	0	1	13	7	4	0
	0830	,,	1018 1	1002 8	+0 2	12 2	10 4	8 6	11 2	79	+2	1·2	—0 6	4·5	0	0	24	1	1	1	1	0	1	11	8	7	0
	1130	,,	1018 0	1003 1	..	20 7	14 2	8 2	10 9	46	..	1 3	..	8 8	0	1	30	4	0	3	1	2	0	12	9	0	0
	1430	,,	1015 1	1000 4	..	23 3	14 8	6 5	9 7	35		2 0		11 7	0	4	26	2	3	1	1	1	0	11	11	1	0
	1730	,,	1014 8	1000 0	..	20 6	14 5	8 8	11 3	48	..	1·9	.	5 0	0	0	29	1	1	4	0	0	1	12	10	2	0
	2030	,,	1016.6	1001 5	.	14 3	11 8	9 3	11 7	72		1 2	..	3 5	0	0	27	1	4	2	0	1	2	16	1	4	0
	2330	,,	1017 1	1001 8	.	12 1	10 5	8 8	11 3	80	.	0 8	..	4 0	0	0	25	0	1	3	1	0	1	15	4	6	0
Farrukhabad . .	0830	102	1017 6	1005 4	.	12 4	11 0	9 5	11 9	93		1 3	.	1 6	0	0	16	0	0	0	1	0	1	13	1	15	0
	1730	,,	1014 4	1002·8	.	19 7	15 4	12 0	14 0	62	.	2·1	..	1·8	0	0	12	0	1	0	0	0	2	8	1	19	0

(b) Mean of 29 days.

(R) Register not received.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1965 (PAUSA 11—MAGHA 11, 1886 SAKA)

Sub Division and station	Hour of observation I S.T	Station elevation in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas)		Mean wind speed in km per hour	Wind speed (km p h.)			No of observations									
			At mean sea level or height in g p m of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point				Mean amount	Departure from normal		62 or more	26 to 61	1 to 19	Wind direction									
																		N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	82
Uttar Pradesh (East)—(Contd)																											
Gorakhpur	0830	77	1017 1	1008 1	—0 1	14 7	12 2	9 7	12 0	72	−7	1 1	−0 3	1 7	0	0	19	0	1	1	1	0	7	7	2	12	0
	1730	,,	1014 0	1005 0	.	22 0	16 0	11 0	13 1	51		1 3		1 7	0	0	20	0	1	0	0	1	0	17	1	11	0
Gorakhpur (P B O.)	0230	78	1015 7	1006·4		14 5	11 9	9 6	11 9	74		0 5		2 3	0	0	18	2	1	1	1	1	1	7	4	13	0
	0530	,,	1015 5	1006 2		13 4	11 1	9 1	11 5	76		0 9		2 6	0	0	14	1	0	1	0	1	1	6	4	17	0
	1130	,,	1017 3	1008 2		21 4	15 2	10 7	12 9	52		1 0		6 3	0	0	30	1	0	2	8	5	0	12	2	1	0
	1430	,,	1014 5	1005 2		22 9	15 4	9 7	12 0	45		1 3		6 1	0	0	30	1	1	0	7	4	3	11	3	1	0
	2030	,,	1016 2	1007 0		17 5	13 ··	10 8	12 9	66		0 4		1 7	0	0	10	0	2	1	0	0	0	4	3	21	0
	2330	,,	1016 4	1007 1		15 9	13 0	10 6	12 8	72		0 4		2 5	0	1	12	1	1	0	0	1	0	4	6	18	0
Kanpur	0830	126	1017 7	1002 6	—0 2	11 6	10 2	8 8	11 3	83	+5	0 9	−0 4	4 0	0	0	20	3	0	1	0	0	2	12	2	11	0
	1730	,,	1014 7	1000 1		22 8	15 5	9 2	11 6	43		0 7	.	6 2	0	0	29	1	1	2	0	1	0	22	2	2	0
Kanpur (Aerodrome)	0530	126	1016 4	1001 3	.	11 0	9 3	7 5	10 4	80		1 7		9 8	0	0	27	6	1	2	2	0	1	9	6	4	0
	0830	,,	1018 4	1003 4	.	13 0	10 7	8 2	10 9	74		1 7		10 0	0	0	27	3	1	2	0	0	2	15	4	4	0
	1130	,,	1018 3	1003 7	..	21 2	14 1	7 1	10 1	42		1 6		13 8	0	1	30	6	1	1	2	2	1	8	10	0	0
	1730	,,	1015 1	1000 6		21 4	14 4	7 7	10 5	43		2 3		1 6	0	0	28	1	3	0	2	1	0	10	11	3	0
	2330	,,	1017 3	1003 2	.	13 3	11 1	8 6	11 2	74		1 4		8 1	0	0	27	4	1	2	1	0	1	9	9	4	0
Sultanpur	0830	97	1018 3	1006 7	.	12 8	10 9	9 0	11 5	78		1 0		1 0	0	0	11	0	0	0	1	0	2	7	1	20	0
	1730	,,	1014 4	1003 2		22 1	15 9	10 8	12 9	49		1 5		0 7	0	0	8	0	1	1	0	0	0	5	1	23	0
Azamgarh	0830	78	1018 1	1009 0		13 1	11 5	10 0	12 3	82		0 9		5 9	0	0	30	0	0	5	0	1	0	24	0	1	0
	1730	,,	1014 7	1005 6		20 9	16 1	21 2	14 2	58		0 9		5 1	0	0	31	0	0	5	0	1	0	25	0	0	0
Fatehpur	0830	114	1018 7	1004 7		13 0	10 9	8 7	11 2	75	+6	1 2	−0 7	3 7	0	0	25	0	2	0	1	0	4	12	6	6	0
	1730	,,	1015 1	1001 9		21 5	15 2	9 7	12 0	47		1 8		3 2	0	0	21	1	0	2	0	0	0	7	11	10	0
Ballia	0830	64	1018 9	1011 4		15 6	13 0	10 6	12 8	74		1 4		1 8	0	0	21	0	2	1	0	0	4	11	3	10	0
	1730	,,	1015 4	1008 0		21 1	16 7	13 5	15 5	62		0 8		0 5	0	0	7	0	0	0	0	0	0	7	0	24	0
Banda	0830	121	1019 3	1005 0		14 4	11 5	8 6	11 2	68	..	1 7		0 5	0	0	5	0	0	0	2	0	3	0	0	26	0
	1730	,,	1015 4	1001 3	.	23 7	16 5	10 5	12 7	45	.	1 6		2 0	0	0	17	0	2	0	0	0	6	0	9	14	0
Allahabad (Bamhrauli)	0230	98	1016 7	1005 0	.	12 0	10 3	8 6	11 3	80	.	0 6		0 5	0	0	7	1	0	0	0	0	2	3	1	24	0
	0530	,,	1016 6	1004 8	..	10 6	9 3	7 9	10 8	64	..	0 9		0 8	0	0	8	0	0	0	0	0	0	8	0	23	0
	0830	,,	1018 6	1006 8	+0 4	12 6	10 7	8 9	11 4	79	−1	1 5	−0 8	1 5	0	0	13	0	0	0	0	2	4	7	0	18	0
	1130	,,	1017 7	1007 1		22 2	15 2	9 0	11 7	44	..	1 5		4 0	0	0	26	1	1	2	1	1	3	14	3	5	0
	1430	,,	1015 4	1004 1	.	24 9	15 9	7 8	11 1	34	..	1 4		6 3	0	0	31	1	2	2	0	0	1	18	7	0	0
	1730	,,	1015 0	1003 7		22 7	14 9	10 2	12 7	46	.	1 2		1 1	0	0	13	1	0	1	0	0	0	8	3	18	0
	2030	,,	1016 8	1005 0		16 6	13 2	10 1	12 5	66		0 4		0 5	0	0	7	1	0	0	0	0	0	3	3	24	0
	2330	,,	1017 3	1005 7		14 0	11 5	9 1	11 7	73		0 4		0 8	0	0	8	1	0	0	0	0	2	3	2	23	0
Varanasi (Babatpur)	0530	85	1017 2	1006 8	..	12 9	10 7	8 6	11 2	76	..	0 9	.	3 3	0	0	19	0	0	0	2	0	9	3	0	12	5
	0830	,,	1019 3	1009 0	+0 9	14 0	12 0	10 0	12 3	74	−4	1 5	−0 8	7 0	0	0	24	0	0	2	0	1	10	11	0	7	0
	1130	,,	1019 0	1009 0		21 1	15 4	10 6	12·7	52	.	1 4	.	10 3	0	0	28	0	1	1	0	3	4	18	1	3	0
	1730	,,	1015 6	1005 6		21 9	15 7	10 6	12 8	49	.	1 3	..	5 0	0	0	24	0	0	2	0	0	4	16	2	7	0
	2330	,,	1017 8	1007 5		16 3	13 0	9 9	12 2	67		0 6		1 9	0	0	13	0	0	0	1	0	1	10	0	18	1
Varanasi	0830	76	1018 2	1009 1	+0 3	14 3	11 8	9 2	11 6	73	−5	1 5	−0 1	2 0	0	0	26	0	0	0	2	0	8	12	4	5	0
	1730	,,	1014 4	1005 5	.	22 9	16 1	10 4	12 6	45		1 2		2 0	0	0	25	0	1	2	0	0	2	17	3	6	0
Uttar Pradesh (West)																											
Mukhim	0830					8 2	3 8	−2 4	5 0	51	.	1 8															
	1730					9 2	5 2	0 1	6 1	55		3 4	..														
Tehri	0830				.	6 3	6 0	5 6	9 1	95		2 4		0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130					14 4	10 0	5 6	9 1	56		2 1	.	0 6	0	0	6	1	1	0	0	2	0	1	0	25	1
	1730	.				16 9	11 5	6 5	9 7	51		3 2		1 6	0	0	13	1	0	0	4	5	2	0	0	18	1
Dehra Dun	0530	692	1017.3	937 5	.	8 5	7 1	5 6	9 1	82		0 9		0 3	0	0	2	2	0	0	0	0	0	0	0	29	0
	0830	,,	1018 8	939 1	+0 9	9 0	7 4	5 4	9 0	79	+6	1 2	−2 2	0 6	0	0	8	6	0	0	0	0	0	2	0	23	0
	1130	,,	1017 1	939 9	..	18 6	12 2	6 5	9·7	47		2 0		1 4	0	0	13	1	0	1	1	2	3	3	2	18	0
	1730	,,	1014 3	937 5	..	17 4	12 6	8 6	11 2	57	.	2 9		1 0	0	0	14	0	0	0	0	2	3	8	1	17	0
	2330	,,	1017 6	938 7		11 2	9·3	6 7	10 4	78	.	1 2		1·2	0	0	6	3	1	0	0	0	0	1	1	25	0
Mansuri	0830				.	5 9	4 9	−3 7	4 5	48		.				..	.		.								
	1730		.		.	5 7	7 9	−0 5	5 9	64			..		.						.						..
Roorkee	0830	274	1018 5	985 6	+0 4	8 9	7 9	6 7	9 8	85	+2	1 7	−0·9	0 7	0	0	12	0	0	0	1	0	0	0	11	19	0
	1730	,,	1015 7	984 0	..	18·8	13 6	9 0	11 5	54	..	2 5	..	1·0	0	0	17	0	0	0	2	0	0	0	15	14	0
Najibabad	0830	270	1018 9	986 7	..	8 9	8 2	7 3	10 2	90		1 0	.	2 1	0	0	20	0	1	6	1	0	1	7	4	11	0
	1730	,,	1017 3	985.8	.	17 4	13 5	10·0	12 3	62		3 3		3·3	0	0	23	0	0	3	3	0	0	8	9	8	0
Meerut	0830	222	1019 1	992 6	+1 7	13 1	10·8	8 4	11 0	74	−3	0 7	−1 8	4 4	0	0	20	2	0	1	0	0	0	11	6	11	0

Sub-Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g p m of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km per hour	Wind speed (km p h.): 62 or more	Wind speed (km p h.): 20 to 61	Wind speed (km p h.): 1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (West) —*(Contd)*																											
Bareilly	0830	173	1018 0	997 3	+0 4	11 7	10 4	9 1	11 5	85	+4	1 6	−0 7	3 5	0	0	23	4	1	3	1	1	0	2	11	8	0
	1730	„	1014 8	994 8		20 2	15 3	11 2	13 3	57		2 3		2 1	0	0	23	3	1	0	1	1	1	8	8	8	0
Bareilly (P B O)	0230	172	1016 4	995 8		13 0	10 9	9 0	11 5	77		1 1	.	3 0	0	0	27	1	0	4	0	0	0	16	6	4	0
	0530	„	1016 1	995 8		11 7	10 1	8 3	10 9	80		1 4		3 1	0	0	25	0	0	5	0	0	0	12	8	6	0
	1130	„	1018 1	998 0	.	17 7	13 4	10 0	12 3	62		1 6		5 0	0	0	30	1	0	5	3	0	0	7	13	1	1
	1430	„	1015 1	995 2		21 8	14 6	9 2	11 6	46		2 2		5 7	0	0	31	0	0	5	2	1	0	9	14	0	0
	2030	„	1016 6	996 1		16 2	12 6	9 8	12 1	66		0 6		3 0	0	0	26	0	2	2	1	0	1	18	2	5	0
	2330	„	1017 1	996 6		14 5	11 7	9 5	11 9	72		0 5		3 0	0	0	25	0	1	4	0	0	0	17	3	6	0
Aligarh	0830	187	1018 9	996 1		11·6	9 9	8 1	10 8	79	+15	2 2	+0 7	3 2	0	0	29	0	1	2	2	0	2	18	4	2	0
	1730	„	1015 2	993 6		20 6	14 7	9 4	11 8	50	..	2 7	.	2 1	0	0	30	5	0	2	0	2	0	15	6	1	0
Manipuri	0830	157	1018 3	999 6	+0 3	11 4	9 9	8 3	10 9	82	+9	0 8	−1 4	2 5	0	0	20	0	1	2	0	0	6	10	0	11	1
	1730	„	1015 2	996 3		21 0	15 4	10 6	12 8	52		0 8		1 8	0	0	15	0	0	0	0	0	6	9	0	16	0
Agra	0830	169	1019 0	999 4	+1 3	12 3	9 8	7 4	10 3	72	+8	0 5	−1 7	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	„	1015 4	995 8		20 9	15 0	9 5	11 9	52		0 9	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Agra (Aerodrome)	0530	169	1017 5	997 1		9 3	8 3	7 3	10 2	91	.	1 5		4 1	0	0	19	2	1	2	0	0	2	9	3	12	0
	0830	„	1018 4	998 9	.	11 4	9 9	8 1	10 8	81		2 1	.	5 3	0	0	21	2	0	1	0	0	4	10	4	10	0
	1130	„	1018 8	999 3	.	20 8	14 5	9 1	11 5	48	..	1 5	.	11 6	0	3	26	5	1	1	1	1	3	4	13	2	0
	1730	„	1015 6	996 1	.	20 8	14 6	9 2	11 6	48		2 2	.	7·0	0	0	25	10	2	0	1	0	0	3	9	6	0
	2330	„	1017 9	998 5		12 2	10 5	8 9	11 4	80		1 7	.	3 8	0	0	15	1	1	4	1	0	2	1	5	16	0
Orai (R)	0830	141																									
(R)	1730	„																									
Jhansi	0830	251	1018 2	988 3	−0 4	16 1	11 7	7 3	10 2	53	−9	1 5	−0 2	1 2	0	0	7	1	0	3	0	3	0	0	0	24	0
	1730	„	1014 8	986 2		22 9	14 9	7 3	10 2	38		1 7	..	2 0	0	0	15	2	1	8	1	3	0	0	0	16	0
Punjab (India) (Including Delhi)																											
Pathankot	0 0	312	1017 7	980 4	.	8 9	8 1	7 2	10 2	90		3 1	.	2 3	0	0	8	2	4	1	1	0	0	0	0	23	0
	0830	„	1019 2	981 9	+1 1	9 4	8 5	7 6	10 4	87	+3	3 5	−0 4	2 4	0	0	15	3	5	2	2	1	1	1	0	16	0
	1130	„	1019 5	932 9		17 0	12 5	8 3	10 9	57		3 2	..	5 6	0	0	25	1	3	1	1	10	5	2	2	6	0
	1730	„	1016 1	980 0	..	17 6	13 3	9 4	11 8	59	.	4 0		5 9	0	0	26	1	1	0	0	2	4	16	2	5	0
	2330	„	1018 8	981 9	.	10 7	9 8	8 7	11 2	87	.	3 1	..	1 4	0	0	4	1	3	0	0	0	0	0	0	27	0
Bhuntar	0830	1067	.		.	3 3	3 1	2 5	7 3	92		3 2	.	2 0	0	0	16	11	0	0	1	1	0	0	3	15	0
	1130	„			..	10 6	6 5	2 3	7 2	53	.	3 3		4 3	0	0	28	6	6	5	1	7	1	0	2	3	0
	1730	„	.			12 9	8 1	2 7	7 4	51	.	3·8	.	6 5	0	0	26	2	0	2	6	3	3	1	8	5	1
Amritsa (Rajasansi)	0530	234	1017 9	989 5	.	7 0	6 4	5 5	9 0	90		1 9	..	2 8	0	1	7	1	0	0	2	0	0	0	5	23	0
	0830	„	1019 4	991 0	+1 0	7 5	6 7	5 8	9 2	89	−2	3 1	−0 1	3 7	0	0	13	1	0	1	0	1	0	3	7	18	0
	1130	„	1019 6	992 1	.	16 9	12 3	7 7	10 5	55	..	3 2		7 6	0	3	19	4	0	2	1	0	1	3	11	9	0
	1430	„	1016 9	989 8	..	20 2	13 2	6 1	9 4	42	..	3 7	.	10 1	0	4	23	4	1	1	1	0	0	1	19	4	0
	1730	„	1016 4	989 1	.	17 8	12 9	8 0	10 7	54	.	3 7		5 3	0	0	24	1	0	3	0	0	0	6	14	7	0
	2030	„	1018 1	990 2		12 0	9 9	7 7	10 5	76	..	2 5		2 3	0	0	10	2	1	2	0	0	0	2	3	21	0
Adampur (Aerodrome)	0830	249	1019 4	989 3	..	6 8	6 5	6 2	9 5	96	.	2 8	.	2 3	0	0	11	3	1	0	1	1	0	1	4	20	0
	1730	„	1016 6	987 5		16 9	13 4	10 3	12 5	65		3 9		8 0	0	0	28	0	0	1	1	1	0	6	19	3	0
Ludhiana	0830	247	1019 0	989 4	+0 8	10 0	8 7	7 4	10 2	84	+5	1 8	−0 9	2 5	0	0	26	0	2	1	2	1	0	2	18	5	0
	1730	„	1016 0	987 3	..	18 6	14 8	11 5	13 6	64	..	2 4	..	2 0	0	0	25	1	0	1	3	0	2	4	14	6	0
Ferozepur	0830	200	1019 7	995 6		10 5	9 2	7 8	10 6	83	.	1 6	.	1·5	0	0	17	4	5	1	0	1	0	0	6	14	0
	1730	„	1017 0	993 6	.	17 8	14 1	11 1	13 2	62		0	..	0 7	0	0	11	5	4	0	0	0	0	0	2	20	0
Halwara (Aerodrome)	0830	242	1019 1	990 2		8 5	7 9	7 3	10 2	95	..	2 5	..	4 0	0	0	15	2	0	1	3	0	0	2	7	16	0
	1730	„	1016 4	988 4	..	18 2	13 5	9 3	11 7	59	.	3 2	..	7 3	0	0	28	3	0	0	2	0	1	5	17	3	0
Chandigarth	0830	347	1019 0	976 7	+0 6	12 4	9 6	5 7	9 1	69	−9	1 1	−1 0	1 1	0	0	10	0	0	0	5	0	0	0	5	21	0
	1730	„	1015 4	974 3		17 9	12 3	6 8	9 9	49	.	1 7	.	2 2	0	0	29	0	0	0	7	0	0	0	22	2	0
Ambala	0830	272	1017 6	985 1	−0 3	10 2	7 8	4 7	8 5	68	−7	1 9	−0 9	0 9	0	0	11	1	0	0	3	0	0	1	6	20	0
	1730	„	1014 6	983 3	..	18 9	13 4	7·4	10 3	49	.	1 5	..	2·2	0	0	21	0	1	0	9	0	1	4	6	10	0
Ambala (P B O)	0230	278	1017 1	984 1	..	11 8	9 5	7·4	10 3	75	..	1 8	..	6 6	0	1	21	1	1	1	3	0	0	0	16	9	0
	0530	„	1011 5	983 4	.	10 5	8 5	6 7	9 7	78	.	1 4		5 8	0	2	19	1	1	1	2	0	0	2	14	10	0
	1130		1018·5	986 [illegible]	..	17 4	12 7	9 0	11 4	59		2.6		8 0	0	2	21	1	0	0	4	0	0	5	13	8	0
	1430	„	[illegible]15 [illegible]	983 5	..	20 3	13 4	7 9	10 6	47		3 2	..	11 6	0	4	24	0	1	0	3	0	0	4	16	3	4
	2030	„	1016 7	984	.	15 5	11 8	8 8	11 3	65		1 7	..	7 9	0	1	24	2	1	0	2	0	1	1	18	6	0
	2330	„	1017 5	984 6	..	13 4	10 5	8·1	10 7	71	..	1 4	..	7 8	0	2	20	1	1	1	1	0	0	0	18	9	0
Ambala (Aerodrome)	0530	27	1017 0	984 0	.	7 7	7 2	6 6	9 7	93	..	1·0	..	6 2	0	0	16	1	0	0	2	0	0	2	11	15	0
	0830	„	1018 4	985 5	.	8 4	7 9	7 0	10·6	89		2·1	..	7 8	0	1	21	1	0	1	2	1	3	1	13	9	0

(R) Register not received

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1965 (PAUSA 11—MAGHA 11, 1886 SAKA)

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in millibars	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km per hour	Wind speed (km p.h): 62 or more	Wind speed (km p.h): 20 to 61	Wind speed (km p.h): 1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)—(Contd)																											
Ambala (Aerodrome)	1130	274	1018 5	986 5		17 7	13 0	8 2	10 8	55		2 4		12 7	0	7	20	0	2	0	4	0	0	4	16	4	1
	1730	,,	1015 3	983 3		18 3	13 1	7 9	10 7	53		3 2		13 0	0	3	23	1	0	0	3	1	0	5	16	5	0
	2330	,,	1017 8	985 1		10 7	9 5	3 2	10 8	84		1 3		7 0	0	2	14	0	1	0	1	0	0	1	13	15	0
Patiala	0830	251	1018 9	989 1		10 9	9 6	8 1	10 3	83		3 0 (b)		6 6	0	0	23	0	0	0	4	0	0	0	19	8	0
	1730	,,	1016 4	987 1		13 5	11 0	9 3	12 1	59		2 9		8 1	0	0	24	1	0	0	3	0	0	0	20	7	0
Bhatinda	0830	211	1019 1	993 9	..	13 0	10 9	9 3	11 7	80		1 2		1 0	0	0	5	0	0	0	2	0	0	0	3	26	0
	1730	,,	1017 6	991 0		19 8	16 6	14 3	16 5	71		0 6		0 8	0	0	6	0	0	0	2	1	0	0	3	25	0
Karnal	0830	249	1018 3	988 6		11 4	9 5	7 4	10 3	77		0														..	
	1730	,,	1014 8	986 6		20 3	14 0	8 0	10 7	47		0															
Hissar	0530	221	1016 6	991 3		9 0	8 4	7 7	10 6	92		1 6		0 8	0	0	5	1	0	0	1	0	2	1	0	26	0
	0830	,,	1019 7	992 9	+0 7	9 1	8 4	7 6	10 4	90	+21	2 0	—0 2	2 9	0	0	21	2	0	1	1	2	8	4	3	10	0
	1130	,,	1019 4	993 6		18 0	14 5	11 5	13 6	66		2 5		4 4	0	0	24	5	0	1	3	1	4	6	4	7	0
	1730	,,	1016 0	990 5		21 7	17 1	13 7	15 7	61		2 3		5 0	0	0	27	6	1	1	2	1	2	7	7	4	0
	2330	,,	1018 5	992.3		12 9	11 0	9 8	12 1	82		1 4		2 1	0	0	16	1	0	0	4	0	2	5	4	15	0
New Delhi(Safdarjung)	0230	216	1017 4	991 6		11 9	10 1	8 3	10 9	79		1 5		5 9	0	0	24	0	0	2	0	0	2	12	8	7	0
	0530	,,	1017 2	991 3		10 9	9 4	7 8	10 6	82		1 7		6 6	0	0	30	0	1	2	1	0	2	19	5	1	0
	0830	,,	1018 8	992·9	+0 6	11 3	9 6	7 9	10 7	80	+4	2 3	—1 0	8 1	0	0	31	0	0	3	2	0	3	18	5	0	0
	1130	,,	1018 8	993 6		19 0	13 5	8 3	10 9	51		2 0		12 6	0	4	26	0	0	1	2	2	2	12	11	1	0
	1430	,,	1016 0	991 0		21 9	14 4	7 4	10 3	49		2 4		16 6	0	9	21	0	0	2	1	0	2	7	18	1	0
	1730	,,	1015 5	990 6		20 5	14 1	8 0	10 7	46		2 5		9 9	0	0	30	0	1	2	1	0	2	6	18	1	0
	2030	,,	1017 4	991 8		15 2	12 3	9 6	11 9	69		1 5		5 9	0	1	25	1	0	1	2	0	1	15	6	5	0
	2330	,,	1018 0	992 3		13 4	11 2	9 0	11 5	75		1 5		5 3	0	0	18	0	0	1	0	0	1	8	8	13	0
Palam (Aerodrome)	0930	,,	1017 5	984 7		10 8	9 3	7 6	10 4	81		1 5		4 0	0	0	21	3	2	1	1	1	3	7	3	10	0
	0530	,,	1017 4	989 8		9 6	8 9	7 6	11 4	86		0 8		3 1	0	0	24	2	1	0	3	0	6	9	3	7	0
	0830	,,	1018 9	991 1		9 5	8 9	7 9	10 7	84		1 5		5 1	0	0	26	1	0	0	3	0	9	12	1	5	0
	1130	,,	1019 6	992 8	.	18 3	14 0	9 7	12 0	60		2 1		10 6	0	0	30	6	1	1	2	3	2	4	11	1	1
	1430	,,																									
	1730	,,	1015 8	988 9		20 2	14 4	9 2	11 6	49		2 3	.	8 9	0	0	31	11	1	2	2	0	2	2	11	0	0
	2030	,,																									
	2330	,,	10 7·9	990 4		12 7	10 6	8 3	10 9	75	.	1 4		3 9	0	0	24	5	1	1	2	2	2	7	4	7	0
Himachal Pradesh																											
Mandi	0830	761	1022 4	932 4	+1 5	4·8	4 2	3·5	7 9	91	—4	1 5 (h)	—3 4	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1015 4	930 1		16 8	10 9	5 0	8 7	48		2 8		0 1	0	0	2	0	0	0	0	0	1	0	1	29	0
Bilaspur	0830	587	1021 8	953 1	.	10 8	9 2	7 6	10 4	80	.	0 8	.	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1014 5	948 4	.	19 6	14 6	10 7	12 9	60		0	.	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Jammu and Kashmir																											
Misgar (R)	0830																										
(R)	1730																										
Gilgit (R)	0830																										
(R)	1730																										
Skardu (R)	0830																										
(R)	1730																										
Leh	0530	3514				—11·6	—13 2	—20 2	1 0	48		4 2 (a)		4 0 (a)	0	0	22	10	9	0	0	2	1	0	0	8	0
	0830	,,			+3 2	—7 8	—10 0 (k)	—16 8 (k)	1 4 (k)	46 (k)	—13	4 2	—1 2	2 0	0	0	15	0	5	0	0	10	0	0	0	16	0
	1730	,,	..	.		—2 6	—2 9 (k)	—8 2 (k)	3 0 (k)	55 (k)		3 8		2 5	0	0	29	8	0	0	1	12	8	0	0	1	0
Srinagar	0830	1587	1569 3	848 5	+3 2	—2 2	—2 9	—4 1	4 4	86	0	7 8	+1 2	1 8	0	0	14	0	0	2	4	3	4	0	1	17	0
	1130	,,	1576 1	849 1		—0 4	—1 5	—3 2	4 7	81		7 6		2·5	0	0	23	3	0	1	4	8	0	5	2	8	0
	1430	,,	1558 2	847 2		1 0	—0 5	—2 7	4 9	76		7·3	.	3 5	0	0	24	1	0	2	8	1	3	4	5	7	0
	1730	,,	1555 5	846·7		0 2	—1 2	—3 4	4 8	77		7 2		3 1	0	0	25	7	0	0	6	4	2	1	5	6	0
	*2030	,,		.										.											..		
Srinagar (Aerodrome)	0530	1666	1565 5	839 9		—2 9	—3 3	—4 2	4 3	90		6 8		0 6	0	0	3	0	0	0	0	1	0	0	2	28	0
	0830	,,	1564 5	839·6	.	—2 8	—3 4	—4 4	4 2	89		7 4 (f)	.	1 9	0	0	10	0	2	3	1	2	0	1	1	21	0
	1130	,,	1579 4	840 6	.	—0 7	—1 5	—2 8	4 8	85		6 7	..	0 1	0	0	11	0	0	3	4	1	0	3	0	20	0
	1730	,,	1552·2	838 5	..	—0 4	—1 3	—2 5	5 0	86	.	6 7	.	1 0	0	0	5	0	0	3	2	0	0	0	0	26	0
	2330	,,	1563·1	839 5	.	—1 9	—2·6	—3 8	4 5	87	..	6 2	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Gulmarg	0830	2655	-		..							closed during winter months							..								
	1730	,,	..	..	..		.	..				closed during winter months							.								
Qazigund	0830	1690	..	.	..	—3.2	.	..			..	7 6	..	1 2	0	0	11	0	0	0	8	0	3	0	0	20	0
	1730	,	.	.		—0 5			.			6 9		1 0	0	0	14	1	0	2	5	0	1	5	0	17	0
Banihal	0830			.	.	2 3	0 7	—1 9	5 3	77		4.2		3 4	0	0	10	1	0	0	1	0	0	0	8	21	0
	1730	..	-	..	-	7·2	3·7	—1 9	5 3	54		5 2	.	3 8	0	0	9	0	0	1	1	0	0	0	7	22	0

(R) Register not received (a) Mean of 30 days. (b) Mean of 29 days (f) Mean of 25 days (h) Mean of 23 days.
*Data not available (k) Mean of 20 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km per hour	Wind speed (km p h): 62 or more	Wind speed (km p h): 20 to 61	Wind speed (km p h): 1 to 19	No of observations: Wind direction: N	NE	E	SE	SW	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Jammu and Kashmir—(Contd.)																											
Jammu	0830	366				10 7	8 6	6 1	9 4	74	+6	3 3	+0 1	8 6	0	0	28	3	11	0	0	0	0	0	1	3	13
	1730	,,				17 0	12 8	8 7	11 2	59		1 5		1 3	0	0	7	1	0	0	0	1	0	0	0	24	5
Jammu (Aerodrome)	0530	292	1017 9	982 1		9 9	8 6	7 2	10 1	83		2 7		4 5	0	0	16	1	12	2	0	1	0	0	0	15	0
	0830	,,	1019 7	984 0		10 1	8 5	6 6	9 7	80		4 3		5 3	0	0	21	2	15	3	0	0	1	0	0	10	0
	1130	,,	1019 7	985 4		16 0	11 9	8 0	10 7	59		4 0		4 5	0	0	19	2	6	1	4	1	0	1	4	12	0
	1730	,,	1016.5	982 3		17 6	12 8	8 2	10 9	55		4 3		4 3	0	0	19	1	1	1	0	0	4	11	1	12	0
	2330	,,	1018 6	983 9		11 7	9 9	7 9	10 7	79		3 3		3 3	0	0	14	0	14	0	0	0	0	0	0	17	0
Rajasthan, West Ganganagar	0530	177	1017 8	996 4		9 4	8 3	7 0	10 0	85		1 4		1 0	0	0	4	0	2	0	1	0	0	0	1	27	0
	0830	,,	1019 1	997 7	+0 7	9 0	7 9	6 8	9 9	86	+3	1 6	—0 5	1 2	0	0	9	2	2	3	0	1	0	1	0	22	0
	1130	,,	1019 6	998 8		18 8	13 2	7 9	10 7	50		3 3		4 5	0	0	27	4	5	3	2	5	1	3	4	4	0
	1730	,,	1015 9	995 4		21 6	14 4	7 7	10 5	41		2 0		1 6	0	0	12	3	4	0	1	0	0	0	4	19	0
	2330	,,	1018 7	997 5		12 5	10 2	7 8	10 6	72	.	1 4	..	2 1	0	0	11	1	2	4	3	0	0	0	1	20	0
Anupgarh (R)	0830	154																									
(R)	1730																										
Mathejan	0830	187	1017 3 (a)	994 8 (a)	..	11 7	9 9	7 2	10 1	75		0 4	.	3 8 (a)	0	0	30	8	5	4	3	6	2	0	2	0	0
	1730	,,	1014 6	992 5		22 2	15 7	10 3	12 5	48		0		4 0 (a)	0	0	30	9	4	1	3	2	4	2	5	0	0
Churu	0830	291	1019 7	984 8		9 6	7·0	3 5	7 9	68		1 6		2 1	0	0	20	1	0	7	3	8	1	0	0	11	0
	1730	,,	1015 6	982 3	.	22 4	13 3	3 4	7 8	31	.	2 2	.	6 3	0	0	29	20	0	1	0	1	2	1	4	2	0
Bikaner	0830	224	1018 9	992 0	+0 4	10 2	7 7	4 5	8 4	70	+5	1 6	—0 6	1 4	0	0	18	2	6	3	3	1	2	0	1	13	0
	1730	,,	1013 0	989 4		24 0	14 1	4 0	8 1	28	.	1 0	.	4 0	0	0	27	9	9	1	3	0	3	1	1	4	0
Bikaner (P.B.O.)	0530	224	1017 3	990 4		10 0	7 8	5 3	8 9	73	.	1 0		1 3	0	0	7	1	3	0	2	1	0	0	0	24	1
	1130	,,	1019 0	993 0		20 6	13 8	7 3	10 2	45		2 7		5 1	0	0	24	0	8	2	8	4	2	0	0	7	0
	2330	,,	1018 0	991 6		14 5	10 4	5 9	9 3	58		1 5		4 0	0	0	12	0	9	1	0	1	0	1	0	19	0
Nagaur	0830	298	1019 2	984 5		17 5	13 1	8 9	11 4	57		1 7		6 5	0	0	30	2	6	9	4	5	4	0	0	1	0
	1730	,,	1014 5	980 3		23 4	16 9	11 8	13 8	50		2 4		4 6	0	0	31	6	10	3	2	3	2	2	3	0	0
Phalodi	0830	234	1018 2	990 4		12 3	8 9	4 8	8 6	61	..	2 9	.	6 7	0	0	25	6	4	0	4	7	1	1	2	6	0
	1730	,,	1015 5	988 8		25 1	15 3	6 4	9 6	31		2 4	.	8 2	0	1	29	4	6	2	3	1	5	6	3	1	0
Jaisalmer	0830	242	1018 0	969 0		13 1	8 5	2 7	7 4	49	.	3 1		9 6	0	0	21	7	5	3	2	3	2	1	0	8	0
	1730	,,	1014 3	986 6		25·0	18 7	14 3	16 3	53		3 4		16 3	0	8	22	11	5	3	1	2	1	4	3	1	0
Jodhpur	0230	224	1016 5	990 2		15 8	11 3	6 3	9 5	56		1 9	.	7 5	0	0	31	6	20	1	0	0	1	3	0	0	0
	0530	,,	1016 4	989 9		14 3	10 5	6 3	9 7	61		1 9		9 0	0	1	26	8	16	1	0	0	2	0	0	4	0
	0830	,,	1018 1	991 5	+1 6	14 4	10 6	6 4	9 6	60	+13	2 8	+0 4	8 3	0	0	27	5	19	2	0	0	0	1	0	4	0
	1130	,,	1018 5	992 5		21 6	14·4	7 5	10 6	42		2 5	.	10·5	0	3	24	1	5	15	3	1	2	0	0	4	0
	1430	,,	1014 9	989 5		25 9	16 2	7 3	10 6	33		2·7	.	10 5	0	0	30	3	9	5	4	2	2	2	3	1	0
	1730	,,	1014 3	988 8	.	25 6	16 2	7 9	10 7	35		3 0		7 5	0	0	26	1	11	3	1	3	2	3	2	5	0
	2030	,,	1016 3	990 4		20 3	14 0	7 9	10 9	47		2 6		6 9	0	0	27	7	10	2	0	1	3	2	2	4	0
	2330	,,	1017 0	990·8		17·7	12 5	7 3	10 2	53	.	2 0		8 9	0	2	25	6	16	1	0	0	1	3	0	4	0
Barmer	0530	194	1015 3	992 4		15 4	11 2	6 6	9 7	57	..	1·4	.	4 3	0	1	23	3	1	0	1	0	0	2	17	7	0
	0830	,,	1016 9	994 0	+0·4	15 2	17 4	7 4	10 3	61	+10	2 5	+0 4	2·9	0	0	18	2	0	0	0	0	1	1	14	13	0
	1130	,,	1017 4	995·0		22 6	15 7	9 7	12 0	46		2·9		3 5	0	0	27	4	6	3	1	1	2	1	9	4	0
	1730	,,	1013 6	991 5		26 5	18 0	11 5	13 6	41		3 4		3 7	0	0	26	3	5	2	2	3	2	2	7	5	0
	2330	,,	1016 1	993 5		19 2	13 7	8 5	11 1	51		1 9		4 5	0	0	24	1	1	0	0	0	1	2	19	7	0
Errinpura (Jawai Dam)	0830	295	1018 0	983·5		15 1	13 4	12 0	14 0	83	..	2 0		2·2	0	0	15	0	1	0	1	13	0	0	0	16	0
	1730	,,	1014 2	980 7		23 9	20 1	17 8	20 4	69		2 3		0 8	0	0	7	3	1	0	0	1	0	2	0	24	0
Munabao*	0830	80							.	.							.		.					..		..	
	1730	,,	.																								
Rajasthan (East) Pilani	0830	301	1019 9	984 4		10 4	7 8	4 3	8 4	68	..	1 1		4 5	0	0	24	0	0	1	5	8	8	1	1	7	0
	1730	,,	1016 0	981 5	.	21 0	12 9	4 4	8·4	35		0 5		7 3	0	1	29	10	6	1	1	0	1	2	9	1	0
Sikar	0830	433	1019 4	968 8		13 6	10 4	7 0	10 0	66		1 2	.	0 6	0	0	7	0	0	1	4	0	0	0	2	24	0
	1730	,,	1014 8	965 7		22 7	14 7	7 2	10 2	39		1 7	.	1·1	0	0	16	0	3	0	1	0	0	7	5	15	0
Alwar	0830	271	1018 0	985 9	.	12 1	10 2	8 3	11 0	79	..	2·4	..	0 6	0	0	6	0	3	1	1	0	0	0	1	25	0
	1730	,,	1015 1	983 9	..	21 8	15 3	9·6	11 9	47	..	2·7	.	1 8	0	0	19	9	4	1	0	0	2	1	2	12	0
Jaipur (Sanganer)	0230	390	1017 2	971 3	.	12 8	9 4	5 6	9 1	62		1·6	..	5·6	0	0	19	5	5	6	0	0	0	0	3	12	0
	0530	,,	1017 1	971 0	..	11·4	8 7	5 5	9 0	68	..	1 6	..	4 4	0	0	18	4	4	7	0	0	0	0	3	13	0
	0830	,,	1018 8	972·9	+0·4	12 9	9 5	5 8	9 2	68	+7	2 0	—0·2	2 8	0	0	12	1	2	7	0	0	1	0	3	19	0
	1130	,,	1018 2	973 6	..	21 4	13 4	5 1	8·8	37	..	2 1	..	9 5	0	3	24	3	1	9	4	2	3	2	1	4	0
	1430	,,	1014 8	970·8	..	23 9	14 5	5 1	8·8	31	.	2 8	..	9 6	0	1	25	1	0	6	2	1	4	5	7	5	0
	1730	,,	1014·4	970·1	.	22·5	14·1	5·7	9 1	35		2·8		5 3	0	0	19	2	0	3	3	1	2	1	7	12	0
	2030	,,	1016 9	971 7	..	16 7	11 6	6 4	9 6	53		1 7		5 8	0	1	20	3	5	8	0	0	1	1	3	10	0

(a) Mean of 30 days

*Data available for less than 15 days hence no Means

(R) Register not received.

Sub-Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km per hour	Wind speed (km p h): 62 or more	Wind speed (km p h): 20 to 61	Wind speed (km p h): 1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (East)-*Contd*																											
Jaipur (Sanganer) —*Contd*	2330	390	1017 7	972 2		14 7	10 4	5 7	9 1	54		1 6		7 0	0	1	23	5	6	10	0	0	0	1	2	7	0
Dholpur	0830	176	1018 8	997 7		12 3	10 0	7 4	10 3	73		1 9		1 6	0	0	14	0	0	0	0	1	0	3	10	17	0
	1730	„	1014 8	994 6		21 7	14 6	8 0	10 7	42		1 8		1 3	0	0	17	6	5	0	0	0	0	0	6	14	0
Ajmer	0830	486	1019 6	962 7	+0 8	11 8	9 2	6 6	9 7	71	+15	2 1	+0 2	1 9	0	0	15	1	4	2	1	0	2	2	3	16	0
	*1730	„	1014 5	959 8		22 7	14 2	6 8	9 9	38		3 3		3 3	0	0	18	3	4	3	1	2	2	2	1	12	0
Tonk	0830	272	1018 6	986 1		12 1	10 5	8 7	11 2	80		2 0	.	5 4	0	0	30	1	2	1	8	0	2	3	13	1	0
	1730	„	1013 7	982 6		23 2	17 6	13 4	15 4	54		2 3	.	3 2	0	0	31	3	4	4	3	2	1	6	10	0	0
Bhilwara	0830	425	1019 3	969 6		13 5	10 1	6 2	10 9	63		3 3	.	3 1	0	0	26	7	8	1	3	0	5	2	2	5	0
	1730	„	1014 3	966 5		23 6	15 4	7 7	20 9	38		3 9	..	5 7	0	0	24	4	10	2	3	1	2	1	1	7	0
Kota	0830	257	1018 5	987·9	—0 1	14 6	11 5	8 4	11 1	67	+10	2 1	+0 3	2 3	0	0	15	1	2	3	3	1	1	2	2	16	0
	1730	„	1014 7	985 1		23 2	15 8	9 8	11 9	43		3 0		2 4	0	0	12	1	8	0	2	1	0	0	0	19	0
Kota (Aerodrome)	0530	274	1016 9	984 5	.	13 3	9 9	6 0	9 3	62		1 7		6 0	0	0	29	0	2	6	0	1	8	12	0	2	0
	0830	"	1019 1	986 8	.	14 5	10 6	6 4	9 6	59		2 4		3 4	0	0	18	1	1	3	2	1	4	5	1	13	0
	1130	"	1019 1	987 4	.	21 1	13 8	6 5	9 7	41		2 1		8 8	0	0	31	0	3	21	0	3	0	0	4	0	0
	1730	„	1014 8	983 5	..	24 2	15 0	6 4	9 6	34		3 6		9 0	0	0	30	4	14	10	0	0	1	0	1	1	0
	2330	„	1017·5	985 5	.	17 3	11 9	6 1	9 4	50	.	2 4	.	7 7	0	0	30	1	3	7	3	0	11	3	2	1	0
Chambal (Rawat Bhatta Dam)	0830	351	1019 0	977 8	.	13 9	10 7	7 3	10 2	66	.	1 3	.	1 3	0	0	8	2	2	0	0	0	1	0	3	23	0
	1730	"	1014 3	974 6		24 3	15 1	6 3	9 5	32		2 3		6 2	0	0	29	1	20	3	1	1	1	0	0	2	0
Udaipur	0230	582	1017 6	950 4	.	12 5	10 5	8 7	11 2	78		1 2		9	0	0	1	0	0	0	0	1	0	0	0	30	0
	0530	"	1017 9	950 1		11 4	9 8	8 5	11 1	85	.	1 1		0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0830	"	1019 4	951 8	+1 4	13 0	10 7	8 6	11 2	76	+22	1 7	+0 3	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	„	1018 1	952 6	.	22 0	14 1	7 2	10 1	40		2 0		2 3	0	0	18	0	3	8	3	0	2	1	1	13	0
	1730	„	1014 2	949 0	.	23 2	14 9	8 4	11 0	40	..	3 1	.	0 6	0	0	4	0	2	1	1	0	0	1	1	25	0
	2330	„	1018 2	951 1	.	14 2	11 7	9 5	11 9	74	..	1 2		1 0	0	0	4	0	2	0	0	1	0	0	1	27	0
Jhalawar	0830	321	1018 6	980 7	+0 5	13 1	10 3	7 4	10 3	69	+1	1 9	+0 2	2 9	0	0	10	6	2	0	1	0	0	1	6	15	0
	1730	„	1013 6	977 4		24 6	15 3	6 7	9 8	33	.	2 4	..	6 1	0	1	28	12	10	2	1	0	1	1	2	2	0
Banswara	0830	220	1017 3	991 6		17 0	12 0	7 2	10 2	54		0 4	.	6 8	0	1	30	2	1	6	12	8	0	0	2	0	0
	1730	„	1013 8	989 1		27 2	17 2	9 0	11 5	30		0 4		5 0	0	0	29	4	4	1	1	1	1	3	14	2	0
Madhya Pradesh (West —																											
Gwalior	0230	207	1017 6	992 6		10 3	8 4	6 4	9 5	78		2 5		9	0	0	7	1	0	0	2	1	2	1	0	24	0
	0530	„	1017 3	992 5		9 2	7 6	5 6	9 1	79		2 3		1 8	0	0	13	0	1	0	4	2	2	2	2	18	0
	0830	"	1019 2	994 5	+1 0	13 0	10 0	6 8	9 9	67	—5	2 6	+0 1	2 2	0	0	16	1	1	0	2	3	4	2	3	15	0
	1130	„	1018 8	994 6	.	21 1	13 7	6 1	9·7	37		2 6		6 2	0	0	31	7	6	2	2	0	2	1	11	0	0
	1430	"	1015 6	992 3	.	24 0	11 4	4 4	8 7	30		2 5		8 7	0	0	31	11	6	2	1	1	0	1	9	0	0
	1730	„	1015 3	991 6	.	22 1	14 4	7 1	10 1	39		2 6		4 1	0	0	27	12	7	2	0	1	0	0	5	4	0
	2030	„	101· 6	993 1		14 6	11 2	7 6	10 6	63		2 1		1 3	0	0	8	1	0	0	1	1	1	1	3	28	0
	2330	„	1018 1	993 4	.	11 9	9 6	7 1	10 0	73		2 1		1 2	0	0	11	1	0	0	2	1	3	3	1	20	0
Sheopur	0830	235	1019 0	991 0	+1 1	11 8	9 5	7 1	10 0	73	0	2 2	—0 2	2 6	0	0	19	4	4	1	3	5	0	0	2	12	0
	1730	"	1014 7	947 9	..	24 1	5 6	7 8	10 6	36	.	3 1		6 1	0	0	27	15	1	1	0	4	1	4	1	4	0
Shivpuri	0830	464	1019 0	964 9	.	13 9	10 1	6 4	9 6	62		2 1	.	2 9	0	0	21	2	7	5	0	1	2	2	2	10	0
	1730	"	1 14.4	961 9		21 9	13 3	5 4	9 0	35		2 2		4 6	0	0	26	5	13	3	0	0	0	0	5	5	0
Nowgong	0830	229	1019 3	992 0	+0 9	11 9	10 1	8 3	10 9	82	+6	2 8	+0 6	2 0	0	0	15	1	0	0	0	4	9	0	1	16	0
	1730	"	1014 9	988·7	..	23 4	15 1	7 3	10 4	36	.	1 6	.	2 2	0	0	25	5	8	0	0	0	1	1	10	6	0
Guna	0530	478	1017 7	961 5	.	11 2	9 2	7 4	10 0	78		2 8		5·2	0	0	26	2	4	5	11	3	0	1	0	5	0
	0830	"	1019 1	963 5	+0 9	14 8	11 4	8 4	11 0	67	+5	2 8	+1 4	4 3	0	0	27	1	8	6	9	2	0	0	1	4	0
	1130	"	1017 8	963 7		22 7	16 0	11 1	12 2	49		2 1		10 1	0	3	28	2	6	11	8	0	0	1	1	0	2
	1730	„	1014 0	960 4		23 6	16 3	11 1	13 2	46		3 0		8 2	0	0	31	6	9	3	1	0	0	2	10	0	0
	2330	"	1018·2	962 6		14 5	11 3	8 4	11 2	68	.	2 4		5 5	0	0	26	1	7	8	4	1	0	1	4	5	0
Nimach	0830	496	1019 4	961·8	+1 3	14 4	9 7	4 6	8 6	53	—2	2 1	+0 6	6 1	0	0	30	1	18	6	2	2	0	1	0	1	0
	1730	"	1014 4	959·0	.	24 6	14 2	4 8	8 7	29	..	3 5		6 1	0	0	31	0	14	7	1	0	1	1	2	0	5
Rajgarh	0830	382	1018 8	973 8	.	12 9	10 5	7 9	10 7	72		2 4		2 8	0	0	20	3	5	2	6	2	0	0	2	11	0
	1730	„	1014 0	971 1		25 5	16 7	9 4	11 9	38		1·3	.	5 4	0	0	29	16	7	1	0	1	0	2	2	·2	0
Sagar	0830	551	1018 7	955 3	+1 3	16 0	11 3	6 9	9 9	56	+6	1 8	0	3 1	0	0	22	0	4	3	1	0	0	7	7	9	0
	1730	"	1014 0	952 4	..	23·2	14 0	5 8	9·3	33	..	1·7		2 2	0	0	27	0	9	3	1	0	0	2	12	4	0
Ratlam	0830	486	1018 2	961 9	+1 2	15 5	11 4	7 5	10 5	60	—3	2 7	+0 5	11 1	0	0	24	2	17	9	1	0	0	0	0	2	0
	1730	"	1013 2	959 0		25 4	16 7	10 4	12 7	41		3 9	·4	8 5	0	5	30	5	15	7	2	0	0	0	2	0	0
Bhopal (Bairagarh)	0230	523	2016·5	956 1	.	15 7	10 6	6 3	9 6	57	.	2 0		4 5	0	0	23	9	8	3	2	1	0	0	0	8	0
	0530	„	1016 7	956 7	.	13 6	9 8	5 9	9 3	61		2 7		5 2	0	0	26	8	10	4	3	0	0	0	1	5	0

* Observations for 30 days

(b) Mean of 29 days

Sub-Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km p.h.): 62 or more	Wind speed (km p.h.): 20 to 61	Wind speed (km p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)(—*Contd*) Bhopal (Bairagarh)—(*Contd*)	0830	523	1018 3	958 2	+0 6	16 6	11 4	6 4	9 7	52	+1	3 7	+1 9	5 5	0	0	25	1	13	8	3	0	0	0	0	6	0
	1130	,,	1017 1	958 2		22 8	14 1	6 5	9 7	36		2 4		8 5	0	1	28	3	7	8	9	0	1	1	0	2	0
	1430	,,	1013 3	955 1		25 7	15 2	6 3	9 7	30		3 1		6 3	0	0	27	3	7	4	3	1	5	1	3	4	0
	1730	,,	1013 3	954 9		24 3	14 7	6 5	9 7	33	.	3 6		6 1	0	0	30	6	14	2	2	2	1	0	3	1	0
	2030	,,	1016 2	956 1		19 7	12 8	6 6	9 7	43		3 1		5 4	0	0	26	8	15	2	1	0	0	0	0	5	0
	2330	,,	1016 9	957 0		17 4	11 8	6 6	9 8	47		2 3		6 4	0	0	22	7	11	2	0	1	0	0	1	9	0
Ujjain	0830	489	1018 5	961 5		13 9	10 8	7 9	10 7	68		2 9 (a)		5 7 (a)	0	1	22	0	6	11	3	0	0	0	0	8	3
	1730	,,	1013 3	958 6		24 9	16 2	9 8	12 1	40	.	4 3		7 5	0	1	26	1	10	4	0	1	0	2	6	3	3
Narsinghpur	0830	356	1019 0	977 1		13 5	10 8	8 1	10 8	70		2 1		1 9	0	0	29	2	17	1	5	0	1	0	3	2	0
	1730	,,	1013 8	973 6		24 3	16 4	9 6	12 3	41		1 6		1 8	0	0	28	2	18	0	3	0	1	0	4	3	0
Hoshangabad	0830	302	1018 3	982 9	+0 4	15 8	13 7	11 9	14 0	79	+23	2 5	+0 8	4 3	0	0	31	4	12	3	5	4	1	2	0	0	0
	1730	,,	1013 3	979 3		25 9	20 5	17 1	19 7	58		2 3		3·7	0	0	31	0	13	3	8	1	5	1	0	0	0
Indore	0530	567	1016 3	950 6		12 9	10 1	7 4	10 4	70		2 1		4 3	0	0	22	0	12	7	0	2	0	0	1	9	0
	0830	"	1018 0	952 7	+0 6	14 9	11 2	7 8	10 7	64	+4	2 2	+0 5	3 6	0	0	19	1	8	6	2	2	0	0	0	12	0
	1130	,,	1016 5	953 0		23 6	15 3	8 9	11 4	41		2 3		11 6	0	2	27	1	7	11	4	4	1	0	0	2	1
	1730	"	1012 4	949 6		25 1	15 9	8 8	11 4	37		2 6		8 5	0	0	29	5	16	2	0	2	1	1	2	2	0
	2330	,,	1016 8	951 8		16 1	12 0	8 3	11 0	61		2 3		7 4	0	1	21	3	14	3	0	1	1	0	0	9	0
Rajpur (Jhabua)	0830	293	1017 7	983 4		15 5	12 3	9 2	11 7	67		1 9		1 2	0	0	7	0	0	7	0	0	0	0	0	24	0
	1730	,	1012 3	979 7		27 7	17 2	8 2	11 1	31		2 6		2 1	0	0	15	2	2	4	0	0	0	5	2	16	0
Chhindwara	0830	685	1018 6	940 0	+0 9	14 3	11 3	8 6	11 2	69	+2	2 0	+0 2	1 2	0	0	11	4	6	0	0	0	0	1	20	0
	1730	"	1012 5	936 8		23 6	15 3	8 5	11 3	41		2 6		4 7	0	0	27	6	1	9	2	7	0	1	1	4	0
Seoni . .	0830	619	1017 9	947 1	+0 7	16 0	12 3	9 0	11 6	64	+3	2 2	+0 6	2 7	0	0	21	7	9	3	1	0	0	1	0	10	0
	1730	,,	1013 0	944 2		23 8	15 7	9 2	12 0	43		2 1		6 3	0	0	30	6	7	7	4	6	0	0	0	1	0
Betul	0830	653	1018 0	943 4	+0 9	16 2	12 4	8 9	11 6	64	−1	2 5	+0 4	2 8	0	0	23	0	7	6	7	1	0	1	1	8	0
	1730	,,	1012 4	940 2		24 4	15 5	8 0	11 1	38		2·3		4 3	0	0	31	6	11	2	4	0	0	0	8	0	0
Khandwa	0830	318	1017 8	980 7	+0 8	16 1	11 9	7 7	10 5	58	+2	2 5	+1 1	1 3	0	0	17	0	11	2	2	1	0	0	1	14	0
	1730	,,	1012 4	976 9		28 0	17 3	7 9	11 9	30		2 2	.	3 7	0	0	31	0	20	1	7	0	1	1	1	0	0
Madhya Pradesh (East)																											
Satna	0530	317	1017 7	979 9		10 3	8 7	6 5	10 0	79		1 9		1 1	0	0	17	3	1	4	1	5	1	1	1	14	0
	0830	,,	1019 0	981 6	+0 9	13 5	10 4	7 0	10 1	65	−3	1 5	−0 5	0 6	0	0	10	1	0	0	0	1	3	5	0	21	0
	1130	,,	1018 3	981 9		21 5	14 1	7 3	10 4	43	..	1 5		2 2	0	0	21	5	3	3	5	0	2	2	1	10	0
	1730	,,	1015 0	978 7		21 6	14 7	8 4	11 1	43	..	1 8	.	1 2	0	0	17	14	0	0	0	1	0	2	0	14	0
	2330	,,	1017 9	980 6		14 4	10 5	6 2	10 0	58	..	1 4		1 4	0	0	18	7	1	4	2	2	2	0	0	13	0
Rewa	0830	299	1019 2	983 4		12 6	10 3	8 0	10 7	74	..	1 7	.	1 8	0	0	21	2	1	0	0	2	6	8	2	10	0
	1730	,,	1014 8	980 8		22 9	15 ?	8 3	11 1	40	..	1 3		2 4	0	0	24	9	3	1	2	0	0	1	8	7	0
Sidhi	0830	*272	1018 5	986 2		11 8	10 0	8 2	10 8	79	..		..													.	.
	1730	,,	1013 3	982 3	.	22 2	16 0	11 0	13 2	50	.		..		.			.	.		.					.	
Umaria	0830	459	1019·4	965 6		12 4	10 2	8 2	10 9	76	+8	1 7	−0 8	1 3	0	0	12	0	0	2	6	2	2	0	0	19	0
	1730	,	1014 2	962 4	..	22 8	16 6	12 2	14 4	52		2 3		1·4	0	0	17	5	1	1	0	0	0	0	3	14	7
Jabalpur	0530	393	1017 2	970 9		11 4	10 1	8 8	11 3	84		1 3	.	0 5	0	0	3	1	0	1	1	0	0	0	0	28	0
	0830	"	1019 0	973 2	+1 5	14 9	11 8	8 8	11 3	67	−4	1 9	+0 1	1 9	0	0	14	0	2	1	5	5	0	1	0	17	0
	1130	,,	1017 6	973 0		22 4	15 4	9 2	11 9	44		1 4		4 1	0	0	30	5	11	2	2	3	1	1	5	1	0
	1430	,,	1013 9	969 9		25 5	16·4	8 6	11 2	35		1 9		4 3	0	0	28	9	7	0	1	0	1	3	7	3	0
	1730	,,	1013 9	969 7		23 5	16 2	10·1	12 5	43		2 4	..	2 5	0	0	21	7	8	1	2	0	0	1	2	10	0
	2330	,,	1017 6	971·7	.	14 9	12 4	10 0	12 3	73	.	1·0		1 0	0	0	6	0	5	0	1	0	0	0	0	25	0
Amarkapur	0830	611	1019 3	948 7	+0 8	13 5	11 0	8 7	11 3	73	−4	1 8	+0 1	1 2	0	0	10	4	3	1	0	1	1	0	0	21	0
	1730	,,	1013 9	945 5		21 2	14 1	8 1	10 9	44	..	2 3	..	5 0	0	0	29	19	1	0	0	1	0	1	7	2	0
Jashpur Nagar	0830	771	1018 5	929 6		13 3	10 7	8 3	11 0	73	..	1 2		0 6	0	0	6	3	2	0	0	0	0	1	0	25	0
	1730	,,	1014 0	927 7	.	20 8	13 9	7 8	10 9	45	..	2 0		4 1	0	0	28	5	2	0	0	1	6	6	8	3	0
Pendra	0530	625	1017 1	945 0		12 7	10 6	7 5	11 2	71	..	1 8	..	3·1	0	0	24	8	1	0	1	0	1	3	10	7	0
	0830	,,	1018 8	947 1	+0 6	14 8	11 3	8 1	10 9	65	−1	1 9	+0 1	3 5	0	0	26	13	1	0	0	0	1	2	9	5	0
	1130	,,	1017·2	947 0		21 1	13·9	7 6	10·5	43		1 8	..	7 1	0	1	28	13	5	1	0	3	3	0	3	2	1
	1430	,,	1013 7	944 3		23 2	14 7	7 5	10 4	38	.	2 3	..	8 5	0	2	26	12	3	2	0	4	3	0	4	3	0
	1730	"	1014 2	944 3		21 0	14 3	8 7	11 4	47	.	2·3	.	4 3	0	0	27	14	1	0	1	6	3	0	2	4	0
	2330	,,	1017·5	946 0		15 2	11 6	8 3	11 0	64	.	6 9		3 3	0	0	24	6	0	1	1	1	5	3	7	7	0
Mandla .	0830	443	1019 1	967 3	+0 9	12 9	11 1	9 4	11 8	80	−5	1 6	−0 9	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1013 5	963 7	..	23·0	15 5	9 0	11 5	43	.	2 3	..	0 9	0	0	6	3	0	0	0	2	0	0	1	25	0
Champa .	0830	245	1018 3	989 5	+0 8	15 8	13 1	10 5	12 9	71	+1	2 5	+0 8	3 3	0	0	29	21	0	0	0	0	0	0	8	2	0
	1730	"	1014 0	986 2		24 5	17 1	11 3	13 4	45	.	2 2		2 1	0	0	21	7	0	0	0	1	0	6	7	10	0
Raigarh	0830	220	1018 1	992 5	+0 9	18 0	14 2	10 8	13 1	64	−1	2 0	+0 1	3 9		0	31	1	27	0	1	1	0	0	1	0	0

*Height provisionally calculated

(a) Mean of 30 days.

Sub-Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars			Mean Temperature in °C			Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas)		Mean wind speed, in km per hour	Wind speed (km p h)			No of observations									
			At mean sea level or height in g p m of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point				Mean amount	Departure from normal		62 or more	20 to 61	1 to 19	Wind direction								Calm	Variable
																		N	NE	E	SE	S	SW	W	NW		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (East)—(*Contd*)																											
Rajgarh—(*Contd*)	1730	220	1013 6	988 5		24 7	16 8	10 3	12 7	42		2 4		2 3	0	0	26	10	11	1	0	2	0	1	1	5	0
Raipur	0530	298	1015 9	981 0		15 1	13 5	12 1	14 2	83		1 1		1 6	0	0	12	3	2	2	3	0	0	0	1	19	1
	0830		1018 2	983 5	+1 0	17 6	14 5	11 8	14 0	70	+8	2 5	+1 0	4 1	0	0	25	5	11	3	1	0	1	1	2	6	1
	1130	,,	1017 3	983 3	..	23 3	16 6	12 2	13 5	49		2 1		6 3	0	0	31	4	10	6	4	3	1	0	3	0	0
	1430	,,	1013 9	980 3		25 8	17 2	9 7	12 2	39		2 3		7 0	0	0	31	6	5	3	3	2	4	3	4	0	1
	1730	,,	1013 9	980 2		24 4	17 2	11 4	13 7	47		2 1	.	3 6	0	0	25	11	6	4	1	0	1	1	1	6	0
	2330	,,	1016 4	981 9		18 5	15 1	12 1	14 4	68		0 8		3 4	0	0	22	1	3	5	4	4	3	1	1	9	0
Kanker .	0830	402	1018 1	971 9	+0 9	18 0	15 5	13 6	15 5	76	+5	1 8	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1013 3	968 3	.	24 6	18 2	13 5	15 7	52		2 4	..	0 1	0	0	2	0	2	0	0	0	0	0	0	29	0
Jagdalpur	0530	553	1015 7	952 1		14 1	12 9	11 9	13 8	87		1 6		0 3	0	0	3	0	3	0	0	0	0	0	0	28	0
	0830	,,	1017 6	954 5	+0 4	16 7	14 2	12 3	14 4	76	—2	2 4	+0 5	0 6	0	0	6	1	3	0	0	0	0	0	2	25	0
	1130		1015 2	953 8		25 0	17 2	11 7	13 9	45		2 4		6 0	0	0	30	3	15	2	6	1	2	0	1	1	0
	1730	,,	1012 0	950 8	.	24 9	17 1	11 4	13 8	45		3 1		3 7	0	0	20	3	11	0	0	3	3	0	0	11	0
	2330	,,	1016 1	953 .		17 3	14 4	12 3	14 3	74		1 5		1 6	0	0	10	1	6	1	1	0	0	0	1	21	0
Gujarat Region																											
Deesa .	0830	136	1017 3	1001 1	+0 3	14 9	11 6	8 3	11 0	66		1 9		4 8	0	2	30	0	24	0	4	0	2	0	0	1	0
	1730	,,	1013 7	998 2		27 3	16 7	7 4	10 4	31		1 2		5 6	0	0	26	0	4	0	2	0	10	0	9	5	0
Radhanpur . .	0830	30	1016 5	1012 9		15 9	13 1	10 6	12 8	71		0 1		3 5	0	0	27	6	4	11	3	0	0	0	3	4	0
	1730	,,	1013 4	1010 0		27 5	18 9	12 5	14 9	42		0		3 5	0	6	28	1	4	8	2	0	1	1	11	3	0
Idar .	0830	219	1016 8	991 5		20 1	13 5	7 0	10 2	44		1 5		6 3	0	3	22	7	8	7	0	0	0	0	0	9	0
	1730	,,	1013 3	988 6		26 8	17 1	9 0	11 6	35		2 1		2 1	0	6	19	1	1	6	2	0	0	9	0	12	0
Ahmadabad	0230	55	1014 9	1008 4		17 5	13 6	10 2	12 4	63		1 4		6 3	0	7	22	6	9	4	1	0	0	0	2	9	0
	0530	,,	1014 7	1008 1		16 2	12 6	9 2	11 7	65		1 3		7 2	0	1	21	3	9	7	1	0	0	0	2	9	0
	0830	,,	1016 6	1010 1	—0 2	17 0	12 9	9 0	11 5	61	+8	1 8	+0 5	8 2	0	5	17	1	9	11	1	0	0	0	0	9	0
	1130	,,	1017 4	1010 9		25 6	17 0	10 0	12 4	40		2 0		15 4	0	6	25	1	2	19	7	1	0	0	1	0	0
	1430	,,	1014 1	1007 9		29 0	18 5	10 4	12 8	34	.	2 6		12 0	0	3	28	2	5	11	6	4	1	0	0	0	0
	1730	,,	1013 4	1007 1		28 3	18 0	9 9	12 3	34		2 5		9 4	0	2	28	6	9	6	4	0	0	1	4	1	0
	2030	,,	1015 2	1008 8		21 6	16 6	11 5	13 8	53		1 7		3 5	0	0	14	6	4	1	2	0	0	0	1	17	0
	2330	,,	1015·8	1009 2		18 9	14 4	10 6	12 8	60		1 2		3 8	0	0	15	4	5	1	1	0	0	0	4	16	0
Jo'ad .	0830	933	1017 4	978 7	+0 6	16 8	12 0	7 2	10 1	54	—7	2 3	+0 7	4 5	0	0	27	0	10	12	3	2	0	0	0	4	0
	1730	,,	1012·6	975 4	.	27 5	16 9	8 0	10 7	31		0 8		6 5	0	0	30	3	8	2	3	2	8	0	4	1	0
Vallabh Vidyanager	0830	44	1016 0	1010 8		15 2	12 4	9 7	12 1	71		1 8		6 5	0	0	30	12	13	2	1	0	0	0	3	1	0
	1730	,,	1012 9	1008 0	.	28 6	18 5	11 0	13 0	35		2 3		5 4	0	0	30	12	8	0	0	0	0	1	9	1	0
Baroda (Aerodrome)	0830	38	1016 3	1011 8		17 4	12 8	8 4	11 1	57		1 4		8 3	0	3	15	10	7	1	0	0	0	0	0	13	0
	1130	,,	1016 6	1012 3		27 5	17 4	9 1	11 7	33		1 4		12 9	0	9	16	2	7	10	6	0	0	0	0	6	0
	1730	,,	1012 7	1008 4	.	29 3	18 2	9 2	11 9	31		2 0		10 0	0	3	22	10	5	0	0	0	0	1	9	6	0
Baroda	0530	34	1014 4	1010 3		16 7	13 7	11 1	13 5	70		1 0		0 4	0	0	4	0	4	0	0	0	0	0	0	27	0
	0830	,,	1016 5	1012 3	+0 6	17 0	13 7	10 7	13 0	68	—2	1 4	+0 3	0 5	0	0	5	0	5	0	0	0	0	0	0	26	0
	1130	,,	1016 7	1012 7		28 1	18 8	11 8	14 1	38		1 2		1 0	0	0	12	0	8	0	2	0	0	0	2	19	0
	1730	,,	1012 9	1009 0		29.5	19·8	13 1	15 2	39		1 8		1 2	0	0	11	0	9	0	0	0	0	0	2	20	0
	2330	,,	1015 5	1011 4		20 3	15 9	12 6	14 7	62		1 2	.	0 4	0	0	4	0	4	0	0	0	0	0	0	27	0
Broach .	0830	17	1015 5	1013 4	+0 1	16 5	13 7	11 2	13 4	72	+7	1 8	+0 7	4 9	0	0	31	2	22	3	2	0	0	0	2	0	0
	1730	,,	1012 1	1010 1		31 0	21 5	15 7	17 8	41		2 1		5 1	0	0	31	0	25	1	2	0	1	0	2	0	0
Surat .	0530	12	1013 7	1012·3		18 6	14 8	11 4	13 7	63		0 9		9 7	0	1	30	0	30	0	0	0	0	0	1	0	0
	0830	,,	1015 8	1014 4	+0 2	18 8	15 0	12 0	14 0	65	+6	1 5	+0 3	7 5		0	29	0	21	2	5	0	0	0	1	2	0
	1130	,,	1016 6	1015 2		27 7	18 6	12·0	14 0	39		1 5	..	10 4	0	1	30	0	17	4	0	0	0	0	0	0	0
	1730	,,	1012 6	1011 3		29 1	20 0	13 7	16 0	40	.	1 9	..	10 8	0	1	30	0	6	0	1 0	0	3	1	21	0	0
	2330	,,	1015 2	1013·8		21 3	16 7	13 3	15 3	62	..	0 8		9 8	0	1	30	0	31	0	0	0	0	0	0	0	0
Saurashtra and Kutch (Including Diu)																											
Naliya .	0830	21	1016 7	1014 1	..	13 9	11 7	9 5	12 0	76	.	2 0		0 8	0	0	5	1	3	1	0	0	0	0	0	26	0
	1730	,,	1013 6	1011 2	.	27 2	18 4	11 6	14 0	40		2 0		5 0	0	0	28	6	5	0	0	0	13	2	2	3	0
Bhuj (Rudramata)	0230	80	1015 5	1006 0		16 7	13 0	9 4	12 0	64		1 4		2 5	0	0	9	5	0	0	0	0	4	0	0	22	0
	0530	,,	1015·2	1005 7	..	14 6	12 0	9 4	11 9	72	.	1·2	.	1 2	0	0	4	0	0	0	0	0	2		0	27	0
	0830	,,	1017 1	1007 5	+0 3	14 6	11 9	9 3	11 7	72	+37	2·5	+1 2	1 3	0	0	6	1	0	0	0	1	4	0	0	25	0
	1130	,,	1017 7	1008 4	..	23 3	15 7	8 9	11 7	43	..	2 2	.	7 0	0	0	23	7	12	2	0	0	0	0	2	8	0
	1430	,,	1014 5	1005 4		27 7	17 0	7 5	10 7	30	..	2 2	.	11 4	0	3	23	5	11	3	1	1	0	0	5	5	0
	1730	,,	1013 7	1004 5		27 9	16 8	6 8	10 1	29		2 6		11 7	0	1	28	5	16	2	1	1	1	0	3	2	0
	2030	,,	1015·7	1006 4		22 5	15 4	9 0	11 8	44	.	1·4	..	3 4	0	0	12	4	4	0	1	0	2	0	1	19	0
	2330	,,	1016 3	1006 9		19 0	14 3	9 9	12 5	57		1 2	.	4 1	0	0	12	7	0	0	0	0	2	2	1	19	0

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1965 (PAUSA 11—MAGHA 11, 1886 SAKA)

Sub-Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g p m of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km per hour	Wind speed (km p.h.): 62 or more	Wind speed (km p.h.): 20 to 61	Wind speed (km p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch (Including) Diu) *(Contd.)*																											
Kandla Aerodrome	0830	35	1017 1	1013 0	.	17 8	13 2	8 7	11 5	57		1 9		12 2	0	4	23	3	2	1	1	0	0	0	20	4	0
	1130	,,	1017 9	1013 8		25 3	16 3	8 2	11 2	37		1 9		15 9	0	7	23	10	8	3	1	0	0	2	6	1	0
	1730	,,	1014 0	1010 0		28 3	17 0	6 9	10 2	28		1 9		14 1	0	4	25	13	2	3	5	2	0	1	3	2	0
New Kandla	0830	14	1017 2	1015 5	.	17 9	14 0	10 5	12 9	63		2 7	.	10 1	0	1	30	17	2	0	2	1	0	1	6	0	0
	1730	,,	1014 2	1012 5		26 7	18 0	11 5	13 6	41		2 5		7 9	0	0	28	7	9	3	2	3	2	1	1	3	
Mandvi	0830	9	1016 8	1015 7	—0 2	18 1	14 7	12 1	14 0	69	+4	4 5	+3 1	11 2	0	6	25	6	14	2	0	1	0	0	0	0	8
	1730	,,	1014 1	1013 0	.	23 9	20 6	18 8	21 6	74	.	2 4		14 6	0	8	23	0	0	1	3	5	16	5	0	0	1
Surendranagar	0830	74	1016 7	1007 9	+0 5	18 1	14 2	10 7	13 0	63	+7	1 8	+0 5	4 3	0	0	23	10	5	3	0	0	0	0	5	8	0
	1730	,,	1012 9	1004 6	.	29 0	19 2	12 1	14 3	37		2 2		4 2	0	0	23	10	6	0	2	0	0	2	3	8	0
Okha	0530	7	1015 1	1014 3		20 9	18 5	17 1	19 4	79		0 8	.	18 5	0	15	12	10	9	2	0	0	0	0	6	4	0
	0830	,	1016 9	1016 1		20 9	18 5	16 9	19 4	79		2 1		15 8	0	11	15	9	11	4	0	0	0	0	2	5	0
	1130	,,	1018 1	1017 3		22 7	19 2	17 0	19 5	71		2 3		14 8	0	7	23	5	13	8	1	1	0	0	2	1	0
	1730	,,	1014 5	1013 7		23 2	20 6	19 0	22 1	78		2 1		12 8	0	8	22	3	0	3	1	0	0	3	20	1	0
	2330	,,	1016 6	1015 8	.	21 9	19 7	18 2	21 1	81		0 8		16 7	0	13	13	11	3	1	0	0	0	1	10	5	0
Jamnagar (Aerodrome)	0530	23	1014 9	1012 2	..	14 7	12 5	10 3	12 7	75		1 2		5 7	0	0	14	3	7	3	1	0	0	0	0	17	0
	0830	,,	1016 8	1014 1	—0 1	15 5	12 9	10 4	12 8	75	+15	1 8	+0 8	6 4	0	1	17	4	8	3	1	1	0	0	1	13	0
	1130	,,	1017 6	1015 0	..	23 6	17 1	11 7	14 2	49		2 2		16 5	0	12	16	6	15	5	1	0	0	0	1	3	0
	1730	,,	1013 8	1011 2		26 4	17 2	9 6	12 2	38		1 8		19 3	0	16	14	18	7	1	0	0	0	1	3	1	0
	2330	,,	1016 1	1013 4		19 7	16 1	13 3	15 4	68		1 1		7 4 (a)	0	2	20	11	7	0	0	0	0	1	3	9	0
Dwarka	0830	11	1016 5	1015 2	—0 1	18 7	16 9	15 7	17 8	83	+16	2 0	+0 4	9 2	0	2	27	17	8	4	0	0	0	0	0	1	0
	1730	,,	1013 6	1012 3		25 1	20 3	17 2	19 9	65		1 3		15 2	0	10	21	15	1	1	0	1	0	1	12	0	0
Rajkot	0530	138	1014 8	998 6		15 3	11 0	6 2	9 7	57		0 9		2 7	0	1	9	3	4	0	1	0	0	1	1	21	0
	0830	,,	1016 6	1000 4	0	16 7	12 1	7 3	10 4	56	−1	1 4	+0 3	2 3	0	1	6	4	2	0	1	0	0	0	0	24	0
	1130	,,	1016 8	1001 1		26 0	16 5	7 9	11 1	35		1 3		15 2	0	10	20	7	17	2	1	0	0	0	3	1	0
	1730	,,	1012 9	997 4		28 8	16 8	5 6	9 4	25		1 2		14 6	0	8	23	8	12	2	0	2	0	0	7	0	0
Bhaunagar (Aerodrome)	0830	11	1016 4	1015 1	+0 1	17 9	13 6	9 7	12 1	60	+19	1 5	+0 1	7 9	0	3	19	3	3	0	1	0	0	3	9	9	3
	1130	,,	1017 0	1015 8		24 6	18 1	13 4	15 5	51		1 6		15 9	0	7	24	10	16	3	2	0	0	0	0	0	0
	1730	,,	1013 1	1011 9		28 3	19 5	13 0	15 5	41		2 0		14 4	0	6	25	3	19	5	3	1	0	0	0	0	0
Porbander (Aerodrome)	0830	7	1016 2	1015 4	+0 4	17 5	14 2	11 5	13 6	69	+2	1 8	+0 7	6 0	0	1	25	4	4	3	6	1	1	0	7	5	4
	1130	,,	1016 9	1016 1		27 3	18 6	12 2	14 4	41		1 7	.	13 9	0	8	23	4	13	7	1	0	1	0	1	0	0
	1730	,,	1013 2	1012 4		27 3	19 7	14 5	16 7	48	.	1 5	..	17 5	0	14	17	3	2	2	0	1	2	19	2	0	0
Keshod	0830	51	1016 1	1010 0		16 9	12 1	7 1	10·2	55	.	1 5		11 5	0	1	29	3	16	11	0	0	0	0	0	1	0
	1130	,,	1016 5	1010 6		26 3	16 5	7 8	10 8	34		1 4		15 1	0	7	23	7	17	5	1	0	0	0	0	1	0
	1730	,,	1012 6	1006 8		29 7	17 4	6 4	9 9	26		1 3	.	18 4	0	12	19	8	5	2	0	1	6	6	3	0	0
Mahuva	0830	9	1015 1	1014 0		19 5	14·9	10 9	13 2	59		5 4 (a)	.	3 2 (a)	0	0	27	5	18	0	0	0	0	1	3	4	0
	1730	,,	1012 7	1011 7		27 3	19 8	14 7	16 9	48		4 8		4 3	0	0	30	1	4	5	17	2	0	0	1	0	0
Veraval	0230	8	1014 3	1013 4		18·4	14 8	11 7	13 9	67		1 1	.	12 1	0	1	30	15	13	1	0	0	0	0	0	0	0
	0530	,,	1013 8	1012 9		17 9	13 7	10 5	13 0	64		1 2	.	13·0	0	4	26	11	18	1	0	0	0	0	0	1	0
	0830	,,	1015 6	1014 7	−0 3	18 8	14 6	10 8	13 2	62	+12	1 5	+0 4	12 7	0	4	25	7	21	1	0	0	0	0	2	1	
	1130	,,	1016 4	1015 5		27 9	19 7	13 8	16 3	46	−	1 6		14 5	0	8	23	6	9	3	4	2	1	4	2	0	0
	1430	,,	1013·5	1012 6		26 9	21 8	18·9	21 8	63	.	1 7	.	17 0	0	9	22	4	2	0	0	7	10	7	1	0	0
	1730	,,	1013·0	1012 1		25 3	22 0	20 2	23 8	74		1 7	.	16 0	0	10	21	2	1	0	0	2	9	12	5	0	0
	2030	,,	1014 9	1014 0	.	22 8	20 2	18 6	21 6	79		1 1		9 3	0	3	27	10	1	1	0	2	1	3	12	1	0
	2330	,,	1015 4	1014 5		20 1	17 2	15 1	17 3	74		1 0		9 7	0	1	30	17	6	1	1	0	0	1	5	0	0
Konkan (including Gao) Dahanu	0830	5	1014 7	1014 2	+0 4	20 6	18 2	16 7	19 0	78	+7	1 2	−0 3	6 7	0	0	31	3	5	3	12	0	0	0	1	0	0
	1730	,,	1012 4	1011 8		25 6	23 5	22 5	27 3	84		1·0	.	14 9	0	5	26	27	0	0	0	0	0	0	3	0	0
Bombay (Santa Cruz)	0230	14	1013 2	1011 5	.	20 1	16 9	14 6	16 7	72	.	1 4	..	3 4	0	0	15	4	4	4	1	0	0	0	2	16	0
	0530	,,	1012 9	1011 2		19 3	16 0	13 5	15 5	70	.	1 2		3 2	0	0	19	2	7	10	0	0	0	0	0	12	0
	0830	,,	1015 0	1013 3	0	21 6	16 9	13 3	15 5	61	−4	2 0	+0 7	4 3	0	0	20	1	4	12	2	0	0	1	0	11	0
	1130	,,	1015 4	1013 7		29 6	18 8	10 5	12 9	32		1 9	..	10 0	0	2	28	3	8	9	8	1	0	0	1	1	0
	1430	,,	1012 2	1010 6		30 3	20 2	13 2	15 5	37		1 6	..	14 8	0	4	27	1	1	2	0	0	0	17	10	0	0
	1730	,,	1011 9	1010·2		27 6	20 1	15 0	17 4	48		1 3		13 9	0	2	29	5	2	0	0	0	0	0	24	0	0
	2030	,,	1013 8	1012 1		24 4	19 2	15 6	18 1	60		1 0		9 4	0	1	28	15	5	1	0	0	0	0	8	2	0
	2330	,,	1014 4	1012 7	.	21 7	17 8	15 1	17 1	67		1·2		2 2	0	0	14	1	7	4	0	0	0	0	2	17	0
Bombay	0830	11	1014 8	1013 5	−0 2	22 2	19·1	17 2	19 6	74	+4	2 2	+0 9	5·8	0	0	30	5	12	12	1	0	0	0	0	1	0
	1130	,,	1015 3	1014 1		27 7	21 0	16 9	19 5	53	.	1 7	..	7·7	0	1	30	2	9	14	3	1	9	0	2	0	0
	1730	,,	1011 7	1010 5	.	26 7	22 2	19 8	23 1	66		1 5		12 5	0	3	28	5	0	0	0	0	5	21	0	7	

(a) Mean of 30 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in c.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km per hour	Wind speed (km p.h.): 62 or more	Wind speed (km p.h.): 20 to 61	Wind speed (km p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
KONKAN (Including Goa)—*Contd.*																											
Alibag	0830	7	1015 2	1014 1	−0 5	21 5	18 0	15 6	17 8	70	+5	1 7	+0 2	5 6	0	0	29	9	7	7	1	1	0	1	3	2	0
Bhira	0830	96	1014 5	1003 4		19 8	16 2	13 4	15 5	68		1 2		3 0	0	0	18	3	2	2	8	0	2	0	1	13	0
	1730	,,	1010 3	996 6		31 1	20 3	12 6	15 1	35		2 0		2 3	0	0	23	1	0	0	2	1	13	5	1	8	0
Harnai	0830	20	1014 2	1011 9	+0 6	24 4	19 1	15 4	17 8	59	−3	2 6	+1 2	9 5	0	8	15	1	6	10	2	2	2	0	0	8	0
	1730	,,	1011 0	1008 0		26 8	23 2	21 3	25 5	70		2 1		19 3	0	12	19	12	0	0	1	0	1	7	10	0	0
Ratnagiri	0830	35	1014 1	1010 3	+0 2	22 1	18 1	15 1	17 1	67		2 0	.	7 6	0	0	30	0	4	18	8	0	0	0	0	1	0
	1730	,,	1011 0	1007 1		28 1	22 3	9 0	22 1	58		1 5	.	9 7	0	0	31	2	1	0	0	0	2	9	17	0	0
Devgarh	0830	36	1014 5	1010 2	+0 6	22 1	19 2	17 0	19 6	72	+1	1 6	−0 2	9 2	0	2	27	0	4	25	0	0	0	0	0	2	0
	1730	,,	1010 7	1006 7		28 2	22 8	19 9	23 4	62		1 5		19 7	0	12	19	0	0	2	0	1	3	5	20	0	0
Vengurla	0230	9	1012 9	1011 9		20 7	18 9	17 8	20 4	84	.	1 0	.	1 3	0	0	8	8	0	0	0	0	0	0	0	28	0
	0530	,,	1012 4	1011 4		19 7	17 8	16 5	18 8	83		1 4		3 4	0	0	19	15	0	2	1	0	0	0	1	12	0
	0830	,,	1014 7	1013 7	+0 8	20 5	18 1	16 4	18 8	78	+4	1 7	+0 4	2 1	0	0	13	11	2	0	0	0	0	0	18	0
	1130	,,	1014 7	1013 7	.	29 8	20 4	13 8	16 3	39	.	1 4		7 7	0	0	30	3	1	6	6	5	5	3	1	1	0
	1730	,,	1011 1	1010 1		28 3	22 1	18 5	21 6	57	.	1 8		6 8	0	0	31	0	1	0	0	0	6	22	2	0	0
	2330	,,	1013 9	1012 9		22 1	19 8	18 4	21 3	81	.	1 6		2 6	0	0	16	12	2	0	0	0	0	1	1	15	0
Panjim	0530	60	1012 2	1005 3		21 0	18 7	17 1	19 7	80		1 4		9 4	0	0	31	2	9	20	0	0	0	0	0	0	0
	0830	,,	1014 4	1007 5		21 1	·5	16 6	19 0	75		1 9		7 7	0	0	28	1	10	16	1	0	0	0	0	3	0
	1130	,,	1014 7	1007 9		29 0	19 9	13 6	15 9	40		1 7		8 8	0	0	31	2	7	7	10	2	1	2	0	0	0
	1430	,,	1011 3	1004 6		31 0	20 8	13 7	16 3	37		2 2		12 5	0	2	29	1	4	3	5	0	9	9	0	0	0
	1730	,,	1010 7	1004 0		28 8	21 5	16 9	19 7	51	..	2 3		13 0	0	0	31	0	0	2	1	0	2	18	8	0	0
	2030	,,	1012 9	1006 1		25 4	21 3	19 0	22 0	68		1 7		6 1	0	0	29	16	2	0	0	1	1	1	8	2	0
	2330	,,	1013 8	1006 9		23 9	20 2	17 9	20 8	70		1 3		6 8	0	0	30	9	17	3	0	0	0	0	1	1	0
Marmugao	0530	62	1011 8	1004 7		22 5	19 3	17 2	19 7	73	.	1 4	.				.	2*	7	15	4	2	0	0	0	1	0
	0830	,,	1013 7	1006 7		23 9	19 4	16 4	18 8	64		1 8						2*	7	18	4	0	0	0	0	0	0
	1130	,,	1014 0	1007 0		28 3	20 2	14 7	17 1	45		1 7						0*	6	11	3	1	5	3	1	1	0
	1730	,,	1010 1	1003 1		28 0	21 6	17 5	20 6	55		2 1						1*	0	1	1	3	12	7	6	0	0
Dabolim (Naval Air Station)	0530	52	1012 6	1006 6		21 4	18 5	16 5	19 0	75	.	2 1		11 5	0	5	19	1	5	16	1	0	0	1	0	7	0
	0830	,,	1014 7	008 7		23 1	18 7	15 6	18 1	64		2 1		12 4	0	3	26	1	5	18	5	0	0	0	0	2	0
	1130	,,	1014 9	1009 1		28 6	20 1	14 7	16 6	44	.	1 8	..	16 0	0	5	26	1	4	9	8	3	5	1	0	0	0
	1730	,,	1010 8	1005 0		28 4	21 5	17 2	20 0	53	.	2 4		20 9	0	21	10	3	0	1	1	0	4	17	5	0	0
Madhya Maharashtra																											
Nandurbar	0830	206	1017 0	993 1		20 2	15 0	10 3	12 9	56		0 1		5 2	0	0	30	2	0	27	0	1	0	0	0	1	0
	1730	,,	1012 3	989 1		28 8	19 3	12 2	14 7	40		1 2		2 6	0	0	25	5	0	15	0	0	0	5	0	6	0
Jalgaon	0830	201	1017 2	993 6	+1 3	17 0	13 2	9 5	12 1	62	+3	3 2	+1 6	9 6	0	0	30	0	4	17	7	0	2	0	0	1	0
	1730	,,	1012 4	989 9	.	29 7	18 2	8 7	11 5	29		3 4	.	7 5	0	11	11	1	3	10	3	0	1	1	3	9	0
Malegaon	0830	437	1017 3	966 6	+0 4	15 5	12 4	9 2	11 9	67	+15	2 8	+1 4	4 1	0	0	31	2	4	1	0	0	5	7	12	0	0
	1730	,,	1012 4	963 2	.	28 2	17 8	8 9	11 9	32		3 1		6 0	0	0	27	3	8	12	3	1	0	0	0	4	0
Ozar*	0830	608				16 0	11 3	6 9	9 9	55		1 7		2·7	0	0	14	2	2	2	1	0	0	5	2	4	0
	1130	,,			.	25 9	16 3	8 9	11 5	3		1 6		11 4	0	1	17	0	1	5	11	1	0	0	0	0	0
	1730	,,				28 5	16·6	7 1	10 2	26		2 1		11 2	0	1	17	2	5	3	1	3	0	2	2	0	0
Deolali (Aerodrome)	0830	571	1017 9	952 3		15 6	12 0	9 0	11 4	65		2 2		3 5	0	0	23	18	3	1	0	1	0	0	0	8	0
	1730	,,	1011 7	949 0		28 0	17 8	10 5	12 9	35		2 8		8 0	0	0	30	5	6	7	3	1	2	4	2	1	0
Ahmadnagar	0830	657	1017 0	942 3	+0 4	16 3	11 9	7 8	10 7	61	+14	2 5	+1 2	4 5	0	0	20	0	4	0	2	0	2	0	12	11	0
	1730	,,	1010 5	938 9		27 8	17 1	8 9	11 7	31		3 4		10 1	0	2	27	0	14	0	7	1	4	0	3	2	0
Poona (Aerodrome)	0230	593	1014 3	946 9	.	17 8	13 4	9 6	12 2	61		1 0		3 2	0	0	12	0	2	2	1	0	2	4	1	19	0
	0530	,,	1014 6	946 8		15 9	12 5	9 4	12 0	67		1 1		5 7	0	0	18	1	6	2	0	0	2	5	2	13	0
	0830	,,	1016 4	948 8		17 2	12 0	9 1	11 8	61		2 1		5 0	0	0	18	0	6	5	1	0	1	5	0	13	0
	1130	,,	1014·8	949 2	..	25 5	16 4	9 2	12 0	36		1 9		16 1	0	22	8	1	8	15	4	1	0	1	0	1	0
	1730	,,	1010 1	945 3		28 4	16 8	7 9	10 7	28		2 6		14 2	0	9	19	0	4	13	3	2	1	3	2	3	0
	2330	,,	1014 8	948·0		20 1	14 2	9 1	11 9	51		1 5		9 2	0	1	27	1	5	6	1	0	1	13	1	3	0
Poona	0530	559	1015 4	950 7		13 2	10 7	8 4	11 1	73		0 8		0	0	0	0	0	0	0	0	0	0	0	0	91	0
	0830	,,	1017 1	952 9	+0 5	15 7	12 8	10 4	12 7	72	+8	1 6	+0 2	0	0	0	1	0	0	1	0	0	0	0	0	30	0
	1130	,,	1014 7	952 8		25 8	17 4	11 6	13·7	42		1 6		3 2	0	0	16	0	2	11	2	1	0	0	0	15	0
	1430		1010 6	949 5		28 8	18 1	1 0	12 9	33		2 8		4·9	0	0	22	1	0	13	4	1	0	3	0	9	0
	1730	,	1010·3	949 0		28 2	17·8	10 5	12·8	36		2 4		4 2	0	0	19	0	0	14	0	1	0	4	0	12	0
	2030	,,	1013 9	951 2		22 0	15 3	10 3	12 5	48	.	1 4		0 6	0	0	4	1	0	1	0	0	0	2	0	27	0
	2330	,,	1015 3	951 8		18 3	13 6	9 8	12 2	58	.	1 2		0 3	0	0	2	0	0	1	0	0	0	0	1	29	0
Jeur	0830	521	1016·3	956 8	+0 5	17 5	12 9	8 8	11 5	57	+2	2 2	+0 8	2 7	0	0	20	1	6	7	3	2	0	0	1	11	0
	1730	,,	1010 2	953 1		28 1	17 3	9 3	11 9	31		2 8	.	7 9	0	1	28	1	4	11	6	3	1	2	1	2	0

*Observations for 18 days

*Estimated

Sub-Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g p m or nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km per hour	Wind speed (km p h): 62 or more	Wind speed (km p h): 20 to 61	Wind speed (km p h): 1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Baramati	0830	551	1016 7	953 7	+0 3	16 9	13 3	10 4	12 7	66	+4	1 6	+0 5	5 7	0	0	26	5	2	10	3	0	0	2	4	5	0
	1730	,,	1010 5	950 2		28 3	19 6	14 2	16 5	43		2 2	.	10 6	0	0	31	0	2	14	8	4	0	3	0	0	0
Sholapur	5030	479	1014 5	959 8		17 7	13 4	9 8	12 3	60		1 3 (a)		6 5	0	0	26	0	5	8	9	2	1	0	1	5	0
	0830	,,	1016 6	962 2	+0 8	20 5	15 6	12 2	14 1	59	+11	1 2	—0 1	7 8	0	0	31	0	9	0	20	0	0	0	2	0	0
	1130	,,	1015 4	962 1		26 7	18 7	13 5	15 7	45		1 8		13 8	0	2	29	1	2	2	18	5	1	2	0	0	0
	1730	,,	1010 8	958 2		29 0	18 7	11 1	14 0	36		2 3		10 8	0	2	29	2	4	10	10	0	2	0	3	0	0
	2330	,,	1014 5	960 6		22 3	15 9	11 1	13 4	50		1 9		11 0	0	0	31	0	14	9	5	1	1	0	1	0	0
Miraj	0830	554	1016 2	953 3	+0 1	18 7	14 2	10 7	12 9	60	+1	2 4	+0 7					0	0	8	0	0	0	0	1	22	0
	1730	,,	1010 1	949 6		26 6	17 6	9 4	12 1	31		3 4						0	0	18	2	1	0	2	1	7	0
Kolhapur	0530	570	1013 8	948 9		16 6	13 5	10 7	13 2	70		1 5		6 3	0	4	24	0	0	14	2	2	2	4	0	7	0
	0830	,,	1015 8	951 1	+0 1	18 5	14 2	10 9	13 0	63	+1	1 6	+0 4	3 5	0	5	17	0	0	17	0	0	0	0	0	14	0
	1130	,,	1014 1	951 3		26 7	17 4	11 0	13 1	38		1 2	.	10 7	0	0	26	0	0	23	5	2	0	0	0	1	0
	1730	,,	1009 8	947 5	..	28 2	17 6	9·8	12 3	33		1 8		12 8	0	0	26	0	0	27	1	1	0	0	2	0	0
	2330	,,	1014 4	950 3		20 6	15 2	11 0	13 4	56		1 0		8 3	0	0	27	0	0	13	1	0	1	12	0	4	0
Marathwada Aurangabad	0830	581	1016 9	95. 2	+0 6	19 4	13 6	8 6	11 4	51	+4	2 2	+0 6	4 0	0	0	22	1	3	18	0	0	0	0	0	9	0
	1730	,,	1011 3	947 7	.	28 1	16 6	7 2	10 5	28		2 4		3 3	0	0	19	1	4	6	0	4	0	3	1	12	0
Aurangabad (Chikalthan)	0230	579	1015 4	948 8		14 5	10 9	7 3	10 4	63	.	1 4		0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0530	,,	1015 6	948 7	.	13 2	10 2	7 2	10 3	68		1 5		0 3	0	0	1	0	0	0	1	0	0	0	0	30	0
	0830	,,	1016 8	950 9		18 0	13 3	9 1	11 9	58		2 3		1 0	0	0	4	0	0	2	1	0	0	0	1	27	0
	1130	,,	1015 4	951 1		25 6	17 9	10 0	13 1	41	.	2 0		12 0	0	1	28	0	1	7	15	5	0	0	1	2	0
	1430	,,	1011 4	947 9		28 0	18 0	10 0	13 3	36		3·0		9 1	0	0	25	1	3	7	7	1	2	2	2	6	0
	1730	,,	1010 9	947 4	..	27 7	17 5	9 2	12 5	35		2 9		5 0	0	0	16		3	6	3	0	0	3	1	15	0
	2030	,,	1014 9	949 4		19 7	14 0	8 9	11 9	52		1 4		0 3	0	0	1	0	0	0	1	0	0	0	0	30	0
	2330	,,	1016 1	949 9		16 4	12 2	8 1	11 2	60		1 5	.	0 6	0	0	2	1	0	1	0	0	0	0	0	29	0
Parbhani	0830	423	1017 4	968 7	+1 5	17 9	13 6	9 3	12 1	59	+3	1 8	+0 2	3 0	0	0	25	2	9	6	3	0	0	2	3	6	0
	1730	,,	1011 8	965 0		27 9	17 6	8 9	11 8	32		2 5		6 5	0	0	31	1	15	9	3	0	0	0	3	0	0
Nander	0830	358	1016 9	975 7		19 3	16 1	13 2	15 7	68		1 6	.	1 2	0	0	8	0	0	0	2	0	2	4	0	23	0
	1730	,,	1011 7	971 9	.	28 2	20 2	14 8	17 1	45	.	1 6	.	4 2	0	0	23	1	11	6	1	0	1	3	0	8	0
Bir	0830	519	1017 7	958 2	.	17 4	14 4	12 0	14 2	71		1 8	..	1 5	0	0	11	0	1	0	4	1	2	0	3	20	0
	1730	,,	1012 8	955 1		25 6	17 0	11 0	13 1	40		2 3	..	4 0	0	0	21	0	19	0	1	0	0	0	1	10	0
Vidarbha Gondia . .	0830	313	1018 4	981 9	+1 1	16 5	13 9	11 7	13 7	74	+3	2 4	+0 7	1 4	0	0	20	5	8	2	2	0	0	0	3	11	0
	1730	,,	1013 7	978 5	..	25 3	17 3	10 7	13 1	43		2·2	.	1 6	0	0	19	10	3	2	0	1	1	1	1	12	0
Nagpur (Sonegaon)	0230	310	1015 3	979 2	..	15 9	13 2	10 7	12 9	72		2 2	.	4 9	0	0	28	11	4	2	0	0	0	0	11	3	0
	0530	,,	1015 8	979 4		14 6	12 5	10 6	12 8	75	..	2 2	.	4 5	0	0	26	10	5	1	0	0	0	0	10	5	0
	0830	,,	1018 0	981 9	+0 8	17 1	13 7	10 7	12 9	67	+4	2 5	+0 7	3 9	0	0	29	17	6	1	0	0	0	0	5	2	0
	1130	,,	1016 8	981 6		24 4	16 6	10 0	12 3	43	..	2 3	..	7 8	0	0	30	0	6	16	7	1	0	0	0	4	0
	1430	,,	1013 2	978 4	.	26 9	17 2	8 5	11 8	36	.	2 6	..	6 8	0	0	30	1	6	9	9	1	0	1	3	1	0
	1730	,,	1013 1	978 2	.	25 4	16 8	9 3	12 2	40	..	2 5	..	6 5	0	0	28	0	3	19	5	1	0	0	0	3	0
	2030	,,	1015 8	980 2		19·8	15 1	11 0	13 4	59	..	1 5	..	4 4	0	0	28	2	2	15	8	1	0	0	0	3	0
	2330	,,	1016 3	980 3		17·4	14 2	11 3	13 7	69		1 5		3 9	0	0	24	6	6	5	1	0	0	2	4	7	0
Amraoti . . .	0830	370	1018 3	975 8	+1 8	20 0	14 0	9 1	11 1	49	0	2·0	+0 3	3·3	0	0	31	0	22	9	0	0	0	0	0	0	0
	1730	,,	1012 5	971 3		27·7	16 9	6 6	10 5	26	.	2 5		3 9	0	0	31	5	6	5	7	2	1	3	2	0	0
Akola (Aerodrome)	0530	309	1014 5	978 5	..	15 9	12 5	8 9	11 8	65	..	2 2		9 7	0	0	30	5	12	7	1	3	1	0	1	1	0
	0830	,,	1016 6	980 8	..	18 3	13 8	9 5	12 0	58	..	3 0	..	8 8	0	0	31	7	7	11	3	1	2	0	0	0	0
	1130	,,	1016 1	981 1		25 3	17 1	10 5	12 9	42		2 6		9 4	0	0	30	3	11	9	3	0	2	2	0	1	0
	1730	,	1011 6	977·1	.	27 6	17 3	8 1	11·4	33		2 8	..	9 0	0	0	30	11	13	3	2	0	1	0	0	1	0
	2330	,,	1014 8	979 3	.	20 4	14 8	9·4	12 3	52		1 7		10 6	0	0	31	5	9	10	4	0	0	1	2	0	0
Akola . . .	0830	282	10 7 2	984 5	+0 7	17 8	14 2	10 9	13 3	66	+12	2 5	+0 8	0 4	0	0	5	0	1	2	0	0	0	2	0	26	0
	1730	,,	1011 9	980 5	..	28 3	18 6	11 0	13 6	37	.	2 7	..	0 9	0	0	14	0	2	8	0	0	0	3	1	17	0
Bramhapuri	0830	229	1017 9	991 1	..	16 6	14 9	13 5	15·6	82		2·2	..	1 6	0	0	21	6	12	2	0	1	0	0	0	10	0
	1730	,,	1013 4	987 5	..	26 9	18·8	13 7	15 9	50		2 3	..	2 3	0	0	29	3	10	7	5	1	0	0	3	2	0
Buldana	0830	650	1016 6	943 0	+0 9	18 3	13 7	9 7	12·3	59	+4	2 4	+0 6	6 8	0	0	29	1	1	6	8	7	3	0	3	2	0
	1730	,,	1011 5	940 0	..	25 5	16·6	9·5	12 4	40	.	2 5	.	6 1	0	0	27	6	6	9	2	0	1	0	3	4	0
Yeotmal . .	0830	451	1016 8	965 3	+0 7	19 3	14·3	9 4	12 3	56	+2	2 7	+0 6	6 5	0	0	30	2	4	20	2	2	0	0	0	1	0
	1730	,,	1012 2	962 1	..	26 5	16·7	7 4	11·0	34	..	2 8	.	7·4	0	0	31	8	11	9	0	1	0	2	0	0	0
Chanda .	0830	193	1017 2	994 6	+0 3	17 3	15 6	14 2	16 3	82	+14	2·2	+0 6	2 4	0	0	21	3	6	4	2	1	1	0	4	10	0
	1730	,,	1012 9	991 4	..	26 8	18 8	12 9	15 1	45		2 3		4 1	0	0	29	2	18	9	0	0	0	0	0	2	0
Pusad . . .	0830	334	1018 2	979 3		11 6	14 0	11 5	13 9	73		2 5		2 4	0	0	22	1	1	3	2	0	0	4	11	9	0
	1730	,,	1012 8	975 6	.	28 3	19 3	12 6	15 0	41		2 5		6 8	0	0	29	2	14	8	3	1	1	0	0	2	0

(a) Mean of 30 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1965 (PAUSA 11—MAGHA 11, 1886 SAKA)

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Octas): Mean amount	Cloud amount (Octas): Departure from normal	Mean wind speed, in km per hour	Wind speed (km p.h.): 62 or more	Wind speed (km p.h.): 20 to 61	Wind speed (km p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidarbha—*Contd*																											
Sironcha	0830	123	1017 7	1003 4	+0 8	19 9	16 7	14 4	16 4	72	−3	2 1	+0 5	2 0	0	0	27	4	7	1	14	0	0	0	1	4	0
	1730	,,	1012·8	998 8	..	28 2	19 6	13 6	15 8	43		2 7		4 7	0	0	30	3	14	1	11	0	0	0	1	1	0
Coastal Andhra Pradesh																											
Kalingapatam	0830	6	1017 5	1016 8	+0 7	21 2	19 0	17 5	19 7	79	−1	1 5	−0 4	4 7	0	0	31	11	0	0	0	0	0	0	12	0	8
	1730	,,	1013 9	1013·2	..	24 9	21 2	19 1	22 1	70		1 5		10 2	0	0	31	0	0	2	5	6	2	0	0	0	16
Vishakhapatnam	0230	3	1014 7	1014 3	.	20 3	18 7	17 7	20 2	85		1 0		0 6	0	0	2	1	0	0	0	0	0	0	1	29	0
	0530	,,	1014 9	1014 5		19 4	18.1	17 3	19 7	87		1 7		0 6	0	0	4	2	1	0	0	0	0	0	1	27	0
	0830	,,	1017 3	1016 9	+0 8	23 0	19 7	17 7	20 2	73	−2	2 3	−0 3	2 1	0	0	8	3	1	0	0	0	1	3	23	0
	1130	,,	1016 6	1016 2	..	27 6	20 3	15·6	17 7	49		3 3		8 5	0	0	24	1	2	6	12	0	1	0	2	7	0
	1430	,,	1013 7	1013 3	.	27 7	20 2	11 1	13 2	48		2 3		15 8	0	8	23	0	0	5	24	0	2	0	0	0	0
	1730	,,	1014 0	1013 6	..	25 4	20 3	17·0	19 4	61		2 4		12 2	0	0	31	0	0	3	24	2	2	0	0	0	0
	2030	,,	1016 1	1015 7	..	21 0	20 1	18 4	21 1	75		1·7		1 1	0	0	7	0	1	3	2	1	0	0	0	24	0
	2330	,,	1016 1	1015 7	.	21 4	19 3	18 0	20 6	81		1 1		1 4	0	0	7	1	1	0	1	0	0	0	4	24	0
Kakinada	0830	8	1017 1	1016 2	+0 7	23 2	20 2	18 1	20 8	73	−2	2 6	−0 1	7 5	0	0	31	0	30	0	0	0	0	0	1	0	0
	1730	,,	1013 8	1012 9	.	25·5	21 4	18 9	21 8	67		2 3	.	12 0	0	0	31	0	16	0	15	0	0	0	0	0	0
Nidadavole	0830	12	1016 9	1015 4	.	21 6	19 4	18 0	20 6	81		4 2		6 1	0	0	31	1	27	3	0	0	0	0	0	0	0
	1730	,,	1012 5	1011 1	..	27 2	25 3	19 2	22 2	62		4 5		6 3	0	0	30	0	8	19	2	0	0	1	0	1	0
Rentachintala	0830	106	1016 7	1004 4	.	21 2	18 8	17 2	19 6	74	+5	2 7	−0 9	0 7	0	0	11	0	0	6	0	4	1	0	0	20	0
	1730	,,	1012 2	1000 3		28 8	20 1	14 4	16 4	42		1 9		1 7	0	0	25	2	0	16	0	7	0	0	0	6	0
Gannavaram	0230	24	1014 2	1011 4		20 4	19 5	18 9	21 8	91		0 9		5 6	0	0	22	8	2	12	0	0	0	0	0	9	0
	0530	,,	1014 4	1011 6	.	19 9	19 1	18 6	21 4	92		1 5		5 5	0	0	23	12	4	7	0	0	0	0	0	8	0
	0830	,,	1016 9	1014 1	+0 9	23 1	20 7	19 3	22 4	79	+3	2 8	+1 1	10 3	0	1	28	4	6	18	1	0	0	0	0	2	0
	1130	,,	1016 5	1013 7	.	27 2	21 7	18 6	21 4	60		4 0	.	13 5	0	2	28	0	0	22	5	3	0	0	0	1	0
	1430	,,	1013 1	1010 4	.	28 9	21 2	16 5	18 8	48		3 9		14 6	0	5	26	1	0	18	11	1	0	0	0	0	0
	1730	,,	1013 2	1010 4	..	27 0	21 0	17 3	19 7	56		3 1		10 7	0	1	30	0	0	11	13	7	0	0	0	0	0
	2030	,,	1015 3	1012 5	..	22 5	20 1	18 7	21 6	79	..	0 9		6 0	0	0	26	0	0	11	11	4	0	0	0	5	0
	2330	,,	1015 6	1012 8	.	21 1	19 7	18 8	21 7	87		0 6	.	3 7	0	0	17	6	1	9	1	0	0	0	0	14	0
Nagarjuna Konda(R)	0830	,,																									
(R)	1730	,,																									
Masulipatam	0830	3	1016 6	1016 2	+0 2	22 0	20 6	19 8	23·1	88	+5	3 8	+1 9	3 2	0	0	29	2	13	13	1	0	0	0	0	2	0
	1730	,,	1013 5	1013·1		25 7	21 7	19 5	22·7	69		3 3		4 2	0	0	31	0	0	18	13	0	0	0	0	0	0
Ongole	0830	12	1016 5	1015 2		22 6	21 2	20 4	24 0	87		3 3		1 2	0	0	17	1	10	2	0	0	0	1	3	14	0
	1730	,,	1013 0	1011 7		26 7	22 6	20 5	24 1	69		2 5		3 0	0	0	31	5	0	24	2	0	0	0	0	0	0
Nellore	0530	20	1014 1	1011 8	.	20 4	19 7	19 2	22 2	94		2 7		1 0	0	0	11	2	3	2	0	0	0	0	4	20	0
	0830	,,	1016.3	1014 0	+0 3	22 5	21 0	20 2	23 7	87	+3	4 5	+1 1	3 4	0	0	27	0	1	1	0	0	0	1	24	4	0
	1130	,,	1016 2	1013 9		27 9	22 3	19 2	22 2	60		5 6		5 3	0	0	30	3	18	7	0	0	0	0	2	1	0
	1730	,,	1013 1	1010 8		26 7	21 8	19 1	22 1	63		5 4		7 2	0	0	31	0	28	0	2	0	0	0	1	0	0
	2330	,,	1015 4	1013 1		22 0	20 6	19 8	23 1	88		1 8		1 0	0	0	8	1	6	0	0	0	0	0	1	23	0
Telangana																											
Ramagundam	0830	156	1016 8	998 8	+0 4	19 9	17 3	15·4	18 0	75	+9	2 0	+0 1	1 9	0	0	28	7	8	1	12	0	0	0	0	3	0
	1730	,,	1012 6	994 9		28 1	19 7	14 0	16 4	44		2 6	.	3 6	0	0	31	3	13	9	4	1	0	0	1	0	0
Nizamabad	0830	381	1016 7	973 8	+1 4	19.4	16 2	14 0	16 0	71	+8	1 6	+0 2	0 2	0	0	1	0	0	0	1	0	0	0	0	30	0
	1730	,,	1011 9	969 5	.	27 7	18 4	11 4	13 5	37		2 1		8 0	0	0	21	0	17	2	1	0	0	0	1	10	0
Hanamkonda	0830	269	1016.9	985 5	−0 3	20 6	18 2	17 5	20 0	76	+3	1 8	−0 8	1 2	0	0	18	0	0	0	2	15	0	1	0	13	0
	1730	,,	1013 1	983 2		27 2	17 1	16 5	18 8	43		1 7	..	5 5	0	0	28	18	0	2	5	3	0	0	0	3	0
Hakimpet (Aerodrome)	0530	613	1014 5	945 1		17 4	15 4	13 8	15 8	81		1 6		7 2	0	0	27	0	3	9	15	0	0	0	0	4	0
	0830	,,	1015 9	946 9	..	20 2	17 3	16 1	18·3	76		3 4	.	11 4	0	2	29	0	2	6	19	4	0	0	0	0	0
	1130	,,	1014.9	947 2		25 2	18 1	13·3	15 3	49		3 4	.	15 2	0	2	29	1	2	7	17	3	0	1	0	0	0
	1730	,,	1011 8	944 3	.	25.5	17 3	11·3	13 4	43		3 4	.	13 1	0	2	29	0	5	13	13	0	0	0	0	0	0
	2330	,,	1013 1	946 0	..	20 0	16 0	13 1	15 1	65		1 2		9 1	0	0	31	1	7	9	13	1	0	0	0	0	0
Bhadrachalam	0830	111	1016 6	1003 7	−0 1	20 6	18 1	16 6	18 8	79	+2	2 3	0	1 7	0	0	26	0	26	0	0	0	0	0	0	5	0
	1730	,,	1012 4	999 9		27 6	19 9	14 8	16 9	49		1 9		2 0	0	0	30	0	30	0	0	0	0	0	0	1	0
Hyderabad (Begampet)	0230	545	1017 6	952 8	.	17 8	15 2	13 0	15 2	74		1 3	.	3 2	0	0	17	0	3	6	8	0	0	0	0	14	0
	0530	,,	1015 1	952 8	.	16 1	14 3	12 9	15 2	82		1 8	..	2 5	0	0	13	2	1	4	5	0	0	0	1	18	0
	0830	,,	1017 1	955 1	+0 8	18 4	15.9	14 3	16.5	77	+7	3 3	+1 1	4 2	0	0	18	2	1	3	11	1	0	0	0	13	0
	1130	,,	1015 4	955 0	.	25 4	17 8	12 6	14 9	46		3 0		11 1	0	2	29	0	1	9	17	2	2	0	0	0	0
	1730	,,	1011 8	951 7		26 4	17 3	10 4	13 1	39		3 4	.	11 0	0	1	30	0	4	11	15	1	0	0	0	0	0
	2330	,,	1015 8	954 0	..	19 9	15 5	12 8	15 2	67	.	1 3	..	4·3	0	0	22	1	9	5	6	1	0	0	0	9	0
Khammam	0830	112	1016 9	1004 0		20 4	19 4	17 9	20 5	82		3 3		0 4	0	0	4	0	0	4	0	0	0	0	0	27	0
	1730	,,	1012.2	999 6		28·8	20 5	14 9	16 9	44		4 2	..	3 4	0	0	24	0	1	21	1	0	0	1	0	27	0

(R) Register not received.

Sub-Division and station	Hour of observation I S T	Station elevation in metres	Mean pressures in millibars			Mean temperature in °C			Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas)		Mean wind speed, in km per hour	Wind speed (km p h)			No of observations									
			At mean sea level or height in g p m of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point				Mean amount	Departure from normal		62 or more	20 to 61	1 to 19	Wind direction								Calm	Variable
																		N	NE	E	SE	S	SW	W	NW		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Telangana—*Contd*																											
Mahbubnagar	0830	525	1015 9	958 9		21 5	17 0	14 6	16 6	66		2 8	.	7 1	0	0	31	0	8	19	3	0	1	0	0	[illegible]	[illegible]
	1730	,,	1013 7	955 4		26 9	17 3	9 9	12 2	36		3 3	..	6 9	0	0	30	0	4	19	4	3	0	0	0	-	0
Rayalaseema																											
Kurnool	0820	281	1016 1	984 3	+0 2	20 7	17 9	16 1	18 3	75	+6	2 5	+0 8	4 0	0	0	31	1	2	0	10	0	9	0	9	0	3
	1730	,,	1011 3	980 4	.	29 3	20 3	14 2	16 2	42		3 0	-	6 7	0	0	31	2	9	3	11	2	1	0	1	0	2
Nandyal (R)	0830								.				.														
(R)	1730								.						.												
Anantapur	0530	350	1013 9	973 7	..	18 4	16 0	14 5	16 5	77		1 7	..	1 0	0	0	6	0	1	5	0	0	0	0	0	25	0
	0830	,,	1016 0	976 0	−0 9	21 1	17 5	15 0	17 0	68	0	2 6	+1 2	3 0	0	0	11	0	1	8	1	1	0	0	0	20	0
	1130	,,	1014 9	975 7		26 3	19 2	14 3	16 3	48		3 0		12 6	0	5	23	0	3	23	2	0	0	0	0	3	0
	1430	,,	1011 0	972 3		28 7	19 5	13 1	15 1	39		3 0		14 2	0	7	23	0	3	25	2	0	0	0	0	1	0
	1730	,,	1010 8	972 0		28 0	19 3	13 3	15 3	41		2 8		14 6	0	7	23	0	2	28	0	0	0	0	0	1	0
	2030	,,	1013 6	974 2		24 8	18 7	14 5	16 5	53		1 3	.	13 0	0	6	24	0	0	30	0	0	0	0	0	1	0
	2330	,,	1014 3	974 7		23 2	18 3	14 8	16 8	60		1 0		14 3	0	6	24	0	1	24	5	0	0	0	0	1	0
Cuddapah	0830	130	1016 4	1001 4	+0 6	22 3	19 5	17 8	20 4	76	−2	2 0	+0 2	0 6	0	0	5	0	0	5	0	0	0	0	0	26	0
	1730	,,	1012 2	997 5		28 0	20 5	15 8	17 9	48		3 2	..	4 0	0	0	24	0	0	23	1	0	0	0	0	7	0
Arogyavaram	0830	701	1016 3	937 6		19 0	16 6	15 1	17 1	80		3 6		4 6	0	0	26	2	1	0	15	6	2	0	0	5	0
	1730	,,	1011 4	934 5	..	24 1	18 2	13 2	15 2	52		4 3	.	9 6	0	0	31	1	8	15	4	1	2	0	0	0	0
Madras State (*Including Pondicherry*)																											
Madras	0830	6	1015 9	1015 2	..	24 9	21 6	19 7	23 1	74		3 6		4 4	0	0	19	4	11	3	0	0	0	0	0	12	1
	1730	,,	1012 8	1012 1	.	25 9	21 5	19 0	22 2	66		2 8		7 9	0	0	29	4	19	3	3	0	0	0	0	2	0
Madras (Minambakkam)	0230	16	1013 5	1011 7	.	21 9	20 9	19 3	22 4	86		1 6		3 7	0	0	22	6	2	1	1	1	0	6	5	9	0
	0530	,,	1013 7	1011 9	.	21 1	20 0	19 3	22 4	90		2 2		4 9	0	0	27	3	3	1	1	0	0	13	6	4	0
	0830	,,	1016 0	1014 2	+0 6	23 4	21 2	19 9	23 2	81	−3	3 5	+0 4	5 5	0	0	28	4	3	2	0	0	0	6	13	3	0
	1130	,,	1015 7	1013 9		27 5	21 8	18 6	21 6	59		4 2	..	11 7	0	1	29	3	12	15	0	0	0	0	0	1	0
	1430	,,	1012 9	1011 1		27 6	21 7	18 3	21 0	57		3 7		13 0	0	2	29	1	17	12	0	0	0	0	0	0	1
	1730	,,	1013 0	1011 2	.	26 2	21 3	18 5	21 3	63		2 9	.	12 1	0	1	30	4	19	8	0	0	0	0	0	0	0
	2030	,,	1015 1	1013 3		24 2	20 9	19 1	22 1	73		1 7		6 2	0	0	27	11	10	6	0	0	0	0	0	4	0
	2330	,,	1015 1	1013 3		23 1	20 6	19 2	22 2	79		1 7		5 5	0	0	26	9	10	5	0	0	0	0	2	5	0
Vellore	0530	214	1014 3	989 5		18 8	18 2	17 8	20 4	97	..	1 9		0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0830	,,	1016 2	991 5	+0 5	20 5	19 1	18 2	20 9	87	+1	4 2	+1 4	0 6	0	0	7	2	0	0	0	0	0	2	3	24	0
	1130	,,	1015 9	991 6		25 7	20 4	17 0	19 5	59		5 0	..	5 5	0	0	29	5	16	4	1	0	1	1	1	2	0
	1730	,,	1012 0	987 9		27 2	19 7	14 7	16 8	47	.	4 2		9 7	0	2	28	1	18	9	2	0	0	0	0	1	0
	2330	,,	1015 6	991 2	.	22 1	19 4	17 6	20 3	76		1 3		3 0	0	0	19	1	13	5	0	0	0	0	0	12	0
Tambaram (Aerodrome)	0830	29	1015 5	1012 2	..	23 9	22 3	21 2	25 2	86	.	3·9		6 3	0	0	29	8	4	0	0	0	0	8	9	2	0
	1730	,,	1012 4	1009 2		26 1	21 7	19 1	22 1	65		3 2	..	23 1	0	15	16	2	20	9	0	0	0	0	0	0	0
Tiruppattur	0830	390	1016 0	971 2	.	18 3	17 9	17 3	19 7	98	..	7 5		2 3	0	0	30	14	15	1	0	0	0	0	0	1	0
	1730	,,	1011 2	967 1		26 2	22 3	20 0	23 4	70		8 0		6 0	0	0	31	6	21	2	0	2	0	0	0	0	0
Mettur Dam R S	0830	##				23 0	20 6	19 2	22 2	79		3 3		4 0	0	0	30	0	15	0	2	0	0	0	13	1	0
	1730	,,			..	26 4	22 8	21 0	24 9	72		4 5		4 3	0	0	31	0	13	0	11	0	3	0	4	0	0
Cuddalore	0530	12	1012 6	1011 6		21 1	20 1	19 5	22 7	91		4 4		0 7	0	0	5	3	2	0	0	0	0	0	0	26	0
	0830	,,	1015 3	1014 0	+0 3	23 3	21 3	20 2	23 7	83	−1	5 0	+1 5	4 6	0	0	26	8	16	1	1	0	0	0	0	5	0
	1130	,,	1015 2	1013 8		26 9	22 3	19 9	23 2	66		5 0		9 7	0	2	29	8	22	0	0	0	1	0	0	0	0
	1730	,,	1012 5	1011 9	.	25 8	21·9	19 8	23 1	70		3 8		14 3	0	7	23	0	29	0	1	0	0	0	0	1	0
	2330	,,	1014·4	1013 1		24 4	21 2	19 5	22 7	76		4 2	..	7 6	0	2	24	0	26	0	0	0	0	0	0	5	0
Kallakkurichchi	0830	127	1015 8	1001 0		22 7	20 4	19 0	22 0	79		3 8		7 3	0	0	31	8	0	0	0	0	0	0	23	0	0
	1730	,,	1011 7	997 4		27 4	20 8	16 7	19 0	56		3 8	.	11 5	0	1	30	1	29	0	0	0	0	0	1	0	0
Salem	0530	278	1013 4	981 5		19 7	17 3	15 7	17 8	78	..	2 4	.	2 9	0	0	11	0	1	10	0	0	0	0	0	20	0
	0830	,,	1015 6	983 9	+0 4	21 9	18 3	16 1	18 3	70	+1 0	3 5	−6	1 5	0	0	10	1	1	8	0	0	0	0	0	21	0
	1130	,,	1014 4	983 3		27 5	19 7	14 9	16 9	48		4 2	.	9 6	0	2	27	0	10	18	1	0	0	0	0	2	0
	1730	,,	1010·8	979 5		28 0	19 5	13 7	15 7	42	,	4 4		8 1	0	0	30	0	8	21	1	0	0	0	0	1	0
	2330	,,	1014 3	982 7		22 7	18 6	15 7	17 8	65		1 8		12 5	0	3	25	0	5	23	0	0	0	0	0	3	0
Coimbatore (Pilamedu)	0530	399	1014 0	968 2		18 3	17 2	16 5	19·0	90		3 2		8 0	0	1	22	9	9	5	0	0	0	0	0	8	0
	0830	,,	1015 9	970 5	.	20 9	18 6	16 9	19 5	79		3 2		11 9	0	1	27	8	17	3	0	0	0	0	0	3	0
	1130	,,	1014 7	970 0		25 1	19 0	15 0	17·2	54		4·1		18 0	0	12	19	6	22	3	0	0	0	0	0	0	0
	1730	,,	1010 5	966 3	.	27 2	18 9	12 9	15 1	42		3 6	..	16 6	0	7	24	1	22	8	0	0	0	0	0	0	0
	2330	,,	1014 5	969 2	..	20·8	17 7	15 4	17·5	72		1 6		12 8	0	4	26	1	16	12	0	0	0	1	0	1	0
Coimbatore	0830	409	1015 7	969 3	+0 6	21 4	18·5	16 6	18 9	75	−5	3 7	+0 3	19 4	0	17	14	8	8	7	8	0	0	0	0	0	0
Nagapattinam	0830	9	1015 3	1014 2	+0 8	24·9	21 5	19 6	22·8	73	−6	4 0	−0 3	14 1	0	10	21	5	17	0	0	0	0	1	8	0	0
	1730	,,	1012 1	1011 0	.	26 3	22 3	20 2	23 7	69		4 1		21 0	0	24	7	4	26	0	1	0	0	0	0	0	0

(R) Register not received.

Sub-Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km per hour	Wind speed (km p.h.): 62 or more	Wind speed (km p.h.): 20	Wind speed (km p.h.): 1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State (*including Pandicherry*)																											
Tiruchirapalli	0290	88	1013 0	1002 9		21 1	20 2	19 3	22 4	89		1 4		9 7	0	2	25	14	12	1	0	0	0	0	0	4	0
	0530	,,	1012 9	1002 8		20 5	19 4	18 7	21 6	90		1 8		7 7	0	0	20	10	9	0	0	0	0	0	1	11	0
	0830	,,	1015 1	1005 0	—0 1	23 4	20 6	18 9	21 8	76	—4	2 8	—0 1	12 8	0	7	20	16	9	0	0	0	0	0	2	4	0
	1130	,,	1014 6	1004 7		27 3	21 6	18 3	21 0	58		4 5		18 6	0	11	20	4	23	3	0	0	0	0	1	0	0
	1430	,,	1011 3	1001 4		29 0	21 7	17 5	20 0	51		4 5		19 4	0	15	16	2	24	5	0	0	0	0	0	0	0
	1730	,,	1011 1	1001 1		27 8	21 5	17 9	20 5	55		3 6		17 1	0	8	23	0	18	13	0	0	0	0	0	0	0
	2030	,,	1013 7	1003 6		23 6	21 0	19 5	22 7	78	.	0 8		13 2	0	2	28	0	18	12	0	0	0	0	0	1	0
	2330	,,	1014 4	1004 2		22 0	20 5	19 6	22 8	87	.	0 6		9 8	0	0	29	4	22	3	0	0	0	0	0	2	0
Vedaranniyam	0830	4	1014 7	1014 2		25 8	22 4	20 5	24 1	73		2 1		5 8	0	0	31	14	16	0	1	0	0	0	0	1	0
	1730	,,	1011 3	1010 8		26 9	23 3	20 7	24 4	72		1 8		5 5	0	0	31	11	19	0	1	0	0	0	0	0	0
Atirampattinam	0830	6	1014 8	1014 1		23 0	21 2	20 1	23 5	84		2 6		7 7	0	0	30	19	1	0	0	0	0	0	10	1	0
	1730	,,	1011 5	1010 8		27 3	21 5	18 8	21 7	60		3 0	.	12 5	0	3	28	3	28	0	0	0	0	0	0	0	0
Madurai . .	0830	133	1015 3	999 9	+0 4	23 0	20 0	.8 5	21 3	71	—8	3 0	—0 6	4 4	0	0	31	16	8	0	0	0	0	0	7	0	0
Madurai (Aerodrome)	0530	131	1013 3	998 1		20 9	19 7	19 0	22 0	89		1 7		7 8	0	0	27	7	20	0	0	0	0	0	0	4	0
	0830	,,	1015 4	1000 3		23 8	20 7	19 0	22 0	75		2 0		9 0	0	0	31	16	14	1	0	0	0	0	0	0	0
	1130	,,	1014 6	999 7		27 4	21 5	18 1	20 8	57		3 1		15 7	0	7	24	3	27	1	0	0	0	0	0	0	0
	1730	,,	1011 0	996 3		28 0	21 5	17 7	20 2	54		3 1	.	14 2	0	5	26	0	26	5	0	0	0	0	0	0	0
Tondi . .	0830	5	1015 0	1014 4		23 5	20 9	19 4	22 5	78	.	3 0		9 6	0	0	31	31	0	0	0	0	0	0	0	0	0
	1730	,,	1011 6	1011 0		26 7	22 8	20 7	24 4	70		3 4		27 2	0	30	1	0	23	8	0	0	0	0	0	0	0
Pamban . . .	0830	11	1014 3	1013 0	+0 2	25 5	23 2	22 4	27 1	82	—1	5 4	+2 1	12 1	0	6	25	8	17	5	0	0	0	0	1	0	0
	1730	,,	1011 1	1009 8		26 2	23 7	22 5	27 3	80	.	5 0		12 8	0	3	28	7	22	2	0	0	0	0	0	0	0
Tuticorin .	0830	4	1014 9	1014 5	+0 2	24 6	21 6	19 9	23 2	75	—2	1 9	—1 0	17 0	0	9	22	18	9	0	0	0	0	0	4	0	0
	1730	,,	1010 8	1010 4		27 0	23 7	22 1	21 6	75		3 7	..	32 2	0	30	1	0	18	13	0	0	0	0	0	0	0
Palayankottai	0830	51	1015 1	1009 2	+0 7	24 5	21 0	19 0	22 0	72	—4	5 0	+0 8	8 5	0	0	31	30	1	0	0	0	0	0	0	0	0
	1730	,,	1010 4	1004 7		29 2	22 0	17 9	20 5	51		4 5		10 2	0	0	31	10	9	10	1	0	0	0	0	0	1
Kanniyakumari .	0830	37	1013 3	1009 2	..	25 6	21 0	18 2	20 9	64		2 6		31 6	1	27	3	13	18	0	0	0	0	0	0	0	0
	1730	,,	1009 7	1005·6	..	27 3	22 8	20 4	23 9	67	.	3 7	..	27 0	0	25	6	0	19	12	0	0	0	0	0	0	0
Coastal Mysore																											
Karwar .	0830	4	1014 5	1014 0	+0 8	21 6	18 8	16 9	19 3	75	—1	1·7	0	4 6	0	0	27	0	2	15	3	0	0	1	1	4	5
	1730	,,	1010 7	1010 2	.	29 6	22 0	19 9	23 2	51	.	2 0	..	8 4	0	1	30	0	0	1	6	2	2	1	18	0	1
Honavar . .	0830	26	1014 4	1011 4	+0 2	22 3	18 6	15 9	18 1	71	+2	3 8	+1 2	7 7	0	0	28	1	3	24	0	0	0	0	0	3	0
	1730	,,	1010 2	1007 4		29 4	23 4	19 2	22 2	57	.	3 2		7 6	0	0	31	0	2	3	0	0	1	20	3	0	0
Mangalore (Bajpe)	0230	102	1011 9	1000 2		21 9	20 0	18 9	21 8	83	.	0 6		5 0	0	0	26	1	3	19	2	0	0	1	0	5	0
	0530	,,	1011 8	1000 1		21 0	18 9	17 5	20 0	81		1 4		6 4	0	0	30	0	1	25	4	0	0	0	0	1	0
	0830	,,	1013 9	1002 2		23 6	19 5	16 8	19 3	67	..	2 1	.	6 5	0	0	30	0	1	29	0	0	0	0	0	1	0
	1130	,,	1013 5	1002 2		29 5	20 5	14 3	16 3	41		2 6		9·3	0	3	27	0	5	21	3	0	0	1	0	1	0
	1430	,,	1010 0	998 7	.	31 5	21 2	14 4	16·4	38	.	2·7	..	9 0	0	0	30	0	2	6	5	0	2	10	4	1	0
	1730	,,	1009 7	998 2		28 5	21 7	17 6	20 4	53		2 6		10 4	0	0	31	0	1	0	0	0	0	21	9	0	0
	2030	,,	1012 2	1000 9		24 9	21 5	19 5	22 9	72		1 5		5 2	0	0	28	1	0	0	0	0	0	9	18	3	0
	2330	,,	1012 9	1001·3		23 7	21 0	19 5	22 7	77	.	0 8	+0 1	3 1	0	0	20	9	1	2	1	0	0	0	7	11	0
Mangalore	0830	22	1014 0	1011 5	+0 2	24 0	20 0	17 6	20 1	68	0	2 1		5 1	0	0	31	0	3	22	6	0	0	0	0	0	0
	1730	,,	1010 1	1007 6		29 0	23 7	20 9	24 7	63	.	2 2		6 0	0	0	31	0	0	0	0	0	7	4	9	0	11
Interior Mysore (North)																											
Bidar .	0830	664	1016 3	941 7		19 9	16 8	14 8	16 8	73	+14	2 2	+0 1	8 0	0	0	28	0	2	7	9	10	0	0	0	3	0
	1730	,,	1011 4	938 5	.	25 6	17 5	11 9	13 9	43		2 2		11 1	0	0	30	0	20	5	3	1	1	0	0	1	0
Gulbarga	0830	458	1016 3	963 5	—0·3	20 5	15 6	11 5	13 7	58	+2	2 4	+1 1	4 6	0	0	17	0	2	12	3	0	0	0	0	14	0
	1730	,,	1010 9	960 2		28 5	17 3	8·9	11 4	31	.	3 0		9 4	0	2	29	0	1	20	7	2	1	0	0	0	0
Bijapur .	0830	594	1015 5	948 7	+0 2	19 1	15 4	12 7	14 7	67	+7	2 1	+0 6	2·0	0	0	23	1	0	3	14	3	0	1	1	8	0
	1730	,,	1010·7	945 7		27 3	17 7	11 3	13 4	37	,	3·9		2 0	0	0	28	3	7	3	8	4	0	1	2	3	0
Raichur	0830	400	1015 9	970 6	+0 4	21 7	17 7	14 9	16 9	65	+1	4 2	+2 7	4·1	0	0	21	1	5	1	8	3	1	0	2	10	0
	1730	,,	1010 9	966 2	.	28 0	18 3	10 5	12 7	34		3 8	.	6 2	0	0	30	0	13	0	15	0	1	0	1	1	0
Belgaum .	0830	753	1015 1	930 8	—2 3	18 4	14 7	11 7	13 7	67	+4	2 0	+0 5	1 1	0	0	8	0	0	8	0	0	0	0	0	23	0
	1730	,,	1009 7	928 0		26 4	16 6	8 8	11 3	35		2 3	..	5 7	0	0	31	0	3	19	8	0	0	1	0	0	0
Belgaum (Sambra) .	0530	747	1013 5	929 6		17 1	13 3	10 1	12 3	65	.	1·7	..	5 0	0	0	23	1	5	10	4	1	0	1	1	8	0
	0830	,,	1015 2	931 8		19 4	14 8	11 4	13 5	60	.	2 5	.	6 1	0	0	24	1	1	9	12	0	0	0	1	7	0
	1130	,,	1014 0	932 0		24 5	16 4	10 2	12 8	42	.	2 4	.	13 9	0	7	24	0	6	7	12	4	2	0	0	0	0
	1430	,,	1010 0	929 0	..	27 1	16 5	8 0	11 1	32		3 3	..	12·0	0	3	28	0	7	11	7	4	1	1	0	0	0
	1730	,,	1009 7	928 6		26 7	16 3	7 7	10 9	32		3 2		8 3	0	1	29	0	9	12	4	2	2	.1	0	1	0
	2030	,,	1012 9	930 5	.	22 2	14 9	8 6	11 6	44	..	1 9		6 2	0	0	28	0	8	9	5	0	3	3	0	3	0
Gadag . .	0530	,,	1013 9	940 6		17 6	15 0	13.1	15 1	75	..	1 1	.	5 3	0	0	25	0	1	15	7	0	1	1	0	6	0
	0830	650	1015 6	942 0	+0 1	19 2	16 2	14 2	16 4	69	+7	1 9	+0 5	4 0	0	0	26	0	6	15	5	0	0	0	0	5	0

(b) Mean of 29 days

Sub-Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas)		Mean wind speed, in km per hour	Wind speed (km p h)			No of observations									
			At mean sea level or height in g p m of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point				Mean amount	Departure from normal		62 or more	20 to 61	1 to 19	Wind direction									
																		N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore (North)—*Contd*																											
Gadag —*(Contd.)* .	1130	650	1014 3	942 9		25 7	18 8	14 5	16 7	51		2 4		11 0	0	4	27	0	12	9	7	0	1	1	1	0	0
	1430	„	1010 5	939 8		28 1	19 2	13 5	15 7	42		2 6		11 5	0	4	26	0	13	11	5	0	0	1	0	1	0
	1730	„	1010 6	939 5		27 3	18 6	12 8	15 2	42		2 5		6 2	0	1	28	0	15	12	0	0	2	0	0	2	0
	2030	„	1013 5	941 4		22 8	16 9	12 8	14 7	54		0 9		7 0	0	1	28	0	10	16	0	0	0	3	0	2	0
	2330	„	1014 5	941 7		20 3	15 8	12 5	14 5	62		1 0		6 0	0	0	29	0	4	18	3	0	0	4	0	2	0
Interior Mysore (South)																											
Bellary	0830	449	1016 2	965 5	+1 0	20 0	17 0	14 7	16 7	71	+7	3 0	+0 9	5 3	0	0	29	1	0	4	21	3	0	0	0	2	0
	1730	„	1010 6	961 2		28 3	18 8	11 6	13 8	36		4 0		6 7	0	0	31	2	0	2	27	0	0	0	0	0	0
Chitradurga . .	0830	738	1015 1	933 4	+0 4	19 9	16 2	13 7	15 7	68	+6	2 8	+0 6	5 0	0	0	28	0	0	20	6	1	1	0	0	3	0
	1730	„	1009 5	929 9		23 2	16 8	9 6	11 9	35	.	2 6		2 6	0	0	19	0	0	19	0	0	0	0	0	12	0
Shimoga . .	0830	571	1015 5	950 7	+0 3	18 2	15 6	13 5	15 5	75	—1	3 6	+1 2	2 6	0	0	30	5	3	6	3	5	5	3	0	1	0
	1730	„	1009 0	945 3		27 5	17 8	10	12 3	34		2 6		8 0	0	0	29	1	5	17	3	2	0	0	1	2	0
Agumbe .	0830					18 7	16 0	14 2	16 2	76				8 5	0	1	30	1	12	9	9	0	0	0	0	0	0
Balehonnur . .	0830					19 4	16 0	13 6	15 6	69	—4											.		..	.	.	
Hassan . .	0830	960	1525 3	908 9		16 0	14 5	13 5	15 5	85	+13	3 0	+0 5	3 0	0	0	31	1	1	21	5	0	1	1	1	0	0
	1730	„	1512 8	905 7		24 8	16 0	9 0	11 8	38		3 0		2 4	0	0	30	0	4	14	10	0	1	1	0	1	0
Bangalore .	0230	921	1516 2	911 7		16 2	15 1	14 3	16 4	89	.	2 2		7 3	0	0	26	0	2	23	1	0	0	0	0	5	0
	0830	„	1532 4	913 6	+0 5	17 0	15 5	14 4	16 5	85	+7	4 1	+1 1	6 8	0	0	26	0	1	22	3	0	0	0	0	5	0
	1130	„	1542 6	913 4		22 7	16 5	12 1	14 4	52		3 8		11 7	0	4	26	0	1	25	4	0	0	0	0	1	0
	1430	„	1522 7	910 8	.	25 0	16 9	11 0	13 5	43		3 7		9 0	0	0	29	0	3	22	4	0	0	0	0	2	0
	1730	„	1517 6	910 6		23 5	16 4	11 3	13 6	47		3 7		8 3	0	1	26	0	3	22	2	0	0	0	0	4	0
	2030	„	1527 3	912 4		19 7	15 8	13 0	15 2	65		1 1		6 3	0	0	27	0	1	22	4	1	0	0	0	4	0
Bangalore (Aerodrome)	0530	897	1507·7	914 1		15 0	14 4	14 0	16 0	94		9 1		4 0	0	0	17	0	1	15	1	0	0	0	0	14	0
	0830	„	1532 2	916 2		16 8	15 5	14 6	16 6	87		4 3		8 5	0	0	26	0	0	21	4	1	0	0	0	5	0
	1130	„	1543 1	916 0		22 6	16 4	12 0	14 0	52		4 0		14 0	0	2	27	0	2	22	5	0	0	0	0	2	0
	1730	„	1516 8	913 0		23 8	16 6	11 6	13 7	47		3 2		12 4	0	1	28	0	2	24	3	0	0	0	0	2	0
	2330	„	1526 7	915 6		17 2	15 3	13 9	15 9	81		0 8		9 4	0	0	29	0	2	24	3	0	0	0	0	2	0
Mysore . .	0830	767	1016 0	930 0	+0 6	18 4	15 8	14 4	16 4	76	+5	3 4	+0 7	12 5	0	6	25	0	9	13	1	3	2	0	2	0	1
	1730	„	1010 0	926 4		26 0	16 5	9 3	11 7	34		1 5		14 2	0	8	23	3	8	14	2	0	2	1	1	0	0
Kerala																											
Calicut . .	0530	5	1011 8	1011 2		21 8	20 9	19 1	22 1	85		0 7		4 5	0	0	26	0	6	20	0	0	0	0	0	5	0
	0830	„	1013 4	1012 8	−0 1	22 9	19 7	17 7	20 2	73	−5	1 8	—0 4	6 0	0	0	28	0	2	26	0	0	0	0	0	3	0
	1130	„	1013 8	1013 2		29 0	22 0	17·9	20 8	53		1 7	.	4 3	0	0	27	0	1	2	1	1	12	10	0	4	0
	1730	„	1010 2	1000 6		29 4	23 6	20 6	24 4	60		1 9	.	8 0	0	0	31	0	0	0	0	0	3	19	9	0	0
	2330	„	1012 7	1012 1		24 8	21 9	20 2	23 8	76		0 4		3 0	0	0	19	3	9	5	0	0	0	0	2	12	0
Palghat . .	0830	97	1014 0	002 9	.	24 5	20 1	17 4	19 9	65		1 8		9 9	0	1	28	0	0	29	0	0	0	0	0	2	0
	1730	„	1009 3	998 4		30 0	21 0	15 2	17 3	41	.	1 8		6 3	0	0	23	0	0	23	0	0	0	0	0	8	0
Fort Cochin .	0830	3	1013 6	013 3	+0 4	26 1	21 4	18 4	21 1	64	−6	4 5	+2 6	6 9	0	0	31	0	15	14	2	0	0	0	0	0	0
	1730	„	1009 6	1009 3		28 2	23 1	21 2	25 2	64		4 8		8 8	0	0	31	0	0	0	0	0	1	20	10	0	0
Cochin (Naval Air Station)	0230	3	1011 7	1011 4	.	23 3	21 5	20 5	24 3	84		1 9		0 3	0	0	1	0	0	0	1	0	0	0	0	30	0
	0530	„	1011 4	1011 1		22 0	20 3	19 2	22 5	84		2 3		1 0	0	0	6	0	4	2	0	0	0	0	0	25	0
	0830	„	1013 6	1013 3		24 6	21 3	19 3	22 9	73		2 6		3 7	0	0	14	0	7	6	1	0	0	0	0	17	0
	1130	„	1013 5	1013 2	..	29 2	22 7	18 9	22 4	55		2 8		5 8	0	0	20	2	6	9	0	0	0	0	3	11	0
	1730	„	1009 6	1009 3		29 0	23 6	20 7	24 9	63		2 8		11 2	0	0	31	0	0	0	0	0	7	20	4	0	0
	2330	„	1012 7	1012 4		24 6	22·4	21 3	25 5	82	.	1 7		2 1	0	0	9	0	2	4	2	0	0	0	1	22	0
Alleppey .	0830	4	1013 3	1012 9	+0 6	21 6	21 3	19 4	22 5	74	−1	2 8	—0 9	5 1	0	0	3	0	0	14	17	0	0	0	0	0	0
	1730	„	1009 5	1009 1		29 5	23 8	20 8	24 6	60	.	3 0	..	18 6	0	13	18	1	0	0	0	0	3	8	19	0	0
Punalur .	0830	84	1012 9	1009 0		23 9	21 2	19 9	23 2	78		3 1		1 4	0	0	12	0	0	2	3	4	3	0	0	19	0
	1730	„	1009 1	1005 3		29 4	25 1	23 2	28 3	69		5 3		4 0	0	0	31	0	0	2	4	12	10	2	1	0	0
Trivandrum . .	0230	64	1010 9	1003 6		24 0	21 3	19 7	22 9	78		0 9	.	2 3	0	0	11	3	4	2	0	0	1	0	1	20	0
	0530	„	1011 0	1003 6		23·2	20 6	19 1	22 1	89		2 1		6 3	0	0	29	8	15	3	0	0	0	0	2	2	1
	0830	„	1013 1	1005 7	+0 2	25·3	21 0	18 4	21 1	66	11	2 6	0	4·5	0	0	25	1	20	3	0	0	0	0	1	6	0
	1130	„	1012 5	1005 3		30 6	21 9	16 5	18 8	44		2 7	.	5 0	0	0	27	2	8	1	3	2	4	4	3	4	0
	1430	„	1009 7	1002 5		30 3	22 9	18 8	21 7	51		2 9		0·9	0	0	31	0	1	0	2	3	16	6	3	0	0
	1730	„	1009 8	1002 6	.	28·7	22 9	19 9	23·2	59	.	3 2		7 7	0	0	31	1	1	0	0	3	16	8	2	0	0
	2030	„	1012 2	1004 9		26 1	22 7	21 0	24 9	74		2 0	.	3 9	0	0	20	3	1	0	0	0	5	4	7	11	0
	2330	„	1012 5	1005 2		25 0	22 1	20 5	24 1	78		2 1		4 6	0	0	24	5	8	2	2	0	2	0	5	7	0
Trivandrum (Aerodrome)	0830	8	1013 3	1012 4		26 4	21 1	17 8	20 8	60		2 9		8 2	0	0	22	2	13	4	1	0	0	0	0	9	2
Arabian Sea Islands																											
Amini	0530	4	1011 3	1010 9		23 5	21 6	20 5	24 1	84	.	1 4		1 4	0	0	12	0	9	1	0	0	0	0	1	19	1

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1965 (PAUSA 11—MAGHA 11, 1886, SAKA)

Sub-Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g p m of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km per hour	Wind speed (km p.h.): 62 or more	Wind speed (km p.h.): 20 to 61	Wind speed (km p.h.): 1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala—(*Contd*)																											
Aminidivi—(*Contd*)	0830	4	1013 7	1013 2		25 2	22 6	21 2	25 2	79	+6	2 0	−0 9	3 0	0	0	21	8	12	0	1	0	0	0	0	10	0
	1130	"	1014 0	1013 5		30 1	24 1	21 2	25 2	59		2 4		6 1	0	0	28	6	12	3	1	0	0	0	2	3	4
	1730	"	1010 7	1010 2		28 9	23 6	20 9	24 7	62		2 6		4 5	0	0	28	4	15	5	0	0	0	1	0	3	3
	2330	"	1013 0	1012 5		23 9	21 8	20 7	24 4	83		0 8		1 0	0	0	7	0	3	1	0	0	0	1	2	24	0
Minicoy	0530	2	1011 2	1011 0		22 8	21 4	20 7	24 4	88		2 6		1 5	0	0	8	1	3	2	0	0	0	1	1	23	0
	0830	"	1013 2	1013 0	+0 3	25 8	23 1	21 7	26 1	79	+5	3 5	+0 6	3 5	0	0	2.	3	7	7	1	1	0	0	2	10	0
	1130	"	1013 5	1013 3		29 2	24 1	21 6	25 8	63		3 5		7 8	0	0	31	3	7	15	2	0	0	1	3	0	0
	1430	"	1010 7	1010 5		29 3	24 1	21 6	25 8	63		4 0		8 0	0	0	30	4	10	10	2	0	0	0	4	1	0
	1730	"	1010 5	1010 3		28 2	29 8	21 6	25 9	68		3 8	.	6 4	0	0	28	0	15	9	1	0	0	1	2	3	0
	2030	"	1012 4	1012 2	..	25 6	22 6	21 1	25 0	77		1 9		4 6	0	0	22	2	9	10	0	0	0	0	1	9	0
	2330	"	10 2 6	1012 4		24 6	22 2	20 9	24 7	80		1 5		5 0	0	0	21	0	8	11	1	0	0	0	1	10	0
Hill Stations (excluding Kashmir)																											
Dalhousie .	0830	1959	1463 0	80· 4	+1 9	7 8	3 8	−1 4	5 4	54	−13	2 0	−1 2	1 9	0	0	19	1	9	1	5	0	0	0	2	12	1
	1730	"	1460 8	800 6		7 8	5 7	3 5	7 8	75		3 0	.	1 6	0	0	13	0	5	0	1	0	2	0	1	18	4
Dharmsala .	0830	1211	1559 5	886 7	+0 7	11 7	6 9	0 6	6 4	49	−13	3 8	+0 2	1 3	0	0	20	7	7	2	0	0	0	2	2	11	0
	1730	"	1557 9	886 1		13 9	9 4	4 5	8 4	54		4 5		2 1	0	0	31	0	3	0	0	1	23	4	0	0	0
Simla	0830	2202	1519 6	743 0	+1 3	6 6	1 2	-10 0	3 0	38	−5	2 4	−1 4	1 0	0	0	16	3	1	1	3	5	3	0	0	15	0
	1730		1510 3	782 3		7 2	3 3	−3 5	4 6	52		4 1	.	0 9	0	0	15	0	3	0	7	0	4	0	1	16	0
Lokpal .	0830					-11 9	-15 1	-37 0	0 2	8		1 5	..						..								
Badrinath	0830					closed during winter months																					
Jochimath . .	0830					4 6	1 0	−5 6	3 8	50		2 8		6 1	0	0	30	0	2	15	8	2	2	1	0	1	0
	1730					9 7	5 0	−1 0	5 6	47		3 5	.	3 4	0	0	28	2	1	1	2	1	3	13	5	3	4
Mussoorie . .	0830	2042				7 2	2 4	−5 3	3 9	46	−10	2 2	−1 4	2 6	0	1	21	8	1	0	1	3	2	0	7	9	0
	1730					8 0	5 4	2 4	7 3	69	.	4·6	.	4 1	0	0	29	8	3	0	1	7	5	0	5	2	0
Mukteswar (Kumaun)	0830	2311	3124 7	773 9	+0 7	5 7	1 4	−6 5	3 5	48	−1	2 0	−1 1	9 0	0	2	24	0	5	3	1	0	0	8	9	5	0
	1730	"	3113 7	772 6		6 6	3 5	−0 8	5 7	62		2 7		9 3	0	2	26	0	3	0	0	0	2	15	8	3	0
Naini Tal	0830	1953	1520 5	806 2	+0 6	5 6	1 6	−5 9	3 8	52	−14	1 9	1 3	4 4	0	0	26	6	0	0	1	1	0	18	0	5	0
	1730	"	1497 0	804 7		7 0	4 6	−0 1	6 1	62	.	3 2	..	8 1	0	0	31	1	0	3	3	2	2	20	0	0	0
Kalimpong .	0830	1209				14 8	13 5	12 5	14 5	87	+12	2 1	−0 3	5 0	0	0	31	0	0	0	11	0	4	0	16	0	0
	1730	"				15 1	13 8	12 9	14 9	86		2 1		4 4	0	0	31	0	0	0	6	0	7	0	8	0	0
Darjeeling	0830	2128	1553 3	793 2	+3 9	5 9	4 8	3 6	7·9	85	+21	4 2	+0.8	0 8	0	0	8	2	2	0	0	0	4	0	0	23	0
	173	"	1521 8	790 5		7 2	6 2	5 2	8 8	87		5 7	.	0 5	0	0	3	0	0	0	0	0	3	0	0	28	0
Kohima	0830	1406	1562 0	866 0		11 5	10 2	9 0	11 5	88		1 5	.	2 0	0	0	31	0	0	0	5	0	1	1	24	0	0
	1730	"	1539 6	863 6		13 3	12 4	11 7	13 7	92		3 8	..	2 5	0	0	31	0	0	0	0	0	4	3	23	0	1
Shillong .	083	1500	1540 4	854 3	+1 7	12 9	8 7	4 2	8 2	57	−13	1 9	+0 4	1 2	0	0	4	0	1	0	0	0	2	1	0	27	0
	173 ·	"	1513 7	851 6		12 1	10 2	8 5	11 1	80		7 1		0 1	0	0	1	0	0	0	0	1	0	0	0	30	0
Cherrapunji (R)	083·	1313																									
(R)	1730	"																									
Abu .	0830	1195		.		12 9	9 9	6 9	9 9	67	+23	1 7	0	0 3	0	0	3	2	0	0	0	0	0	0	1	28	0
	1730	"			-	18·1	11 4	4 6	8 5	40		2 5	.	0 1	0	0	2	1	0	0	0	0	0	0	1	29	0
Ajal	0830					15 2	11 3	7 8	10 6	61		1 5		4 9	0	0	31	0	1	22	1	1	1	5	0	0	0
	1730				.	16 7	12 2	8 3	10 9	59		1 8 (c)	..	4 7 (c)	0	0	28	0	0	0	0	0	9	15	4	0	0
Pachmarhi .	0830	1075	1544 0	898 8	+1 1	13 8	10 6	7 5	10 5	66	+4	2 5	+0 6	1 1	0	0	15	1	6	0	3	3	1	1	0	16	0
	1730	"	1539 2	896 4		19 8	12 9	6 2	9 9	43	.	3 3	..	2 0	0	0	27	5	11	1	0	0	2	2	6	4	0
Mahabaleshwar	0830	1382	1531 0	865 3	−0 1	15 4	11 0	6 8	9 9	57	+5	0 7	−0 3	10 5	0	1	30	0	7	0	22	0	1	1	0	0	0
	1730	"	1516 0	863 5		21 5	14 3	8 3	11 1	44		1 1		9 8	0	0	3.	0	12	0	14	0	2	0	3	0	0
Mercara	0830	1152	1522 1	887 5	−0 3	15 4	13 8	12 6	14 6	81	+3	2 0	−1.4	13 6	0	6	25	0	14	17	0	0	0	0	0	0	0
	1730	"	1508 1	885 5		22 3	14 8	8·8	11 3	41	.	2 1	.	5 0	0	0	31	1	19	8	0	0	0	0	2	0	1
Ootacamund	083	2249	1544 1	780 8	+0 2	9 2	6 3	4 5	7 4	68	+10	1 1	−1 1	1 0	0	0	6	0	4	2	0	0	0	0	0	25	0
	1730	.	1503 2	779 3		15 1	12 1	9 9	12 2	71		2 7		2 3	0	0	6	0	4	2	0	0	0	0	0	25	0
Coonoor (R)	0830																										
Kodaikanal	0830	2343	3152 9	772 1	+0 1	11 5	7 4	1 8	6 9	60	+5	3 5	+0 7	11 1	0	4	24	2	4	6	9	6	0	0	1	3	0
	1130	"	3166 8	772.5		15 1	10 0	4 9	8·7	53		3 0		11 9	0	3	28	2	4	7	13	5	0	0	0	0	0
	730	"	3137 4	770 6		11 6	9 9	8 3	10 9	81		5 6		5 2	0	0	26	5	5	3	6	6	0	0	1	5	0
Nepal																											
Katmandu	0830	1324	1529 1	871 8		4 9	4 3	3 6	8 0	9 2		4 0	.	0·3	0	0	3	0	0	1	0	0	0	1	1	28	0
	1130	"	1525 9	870 6		15 1	10 1	5 1	8 8	5 2		2 7		1 1	0	0	10	2	1	1	2	0	0	0	3	21	1
	1730	"	1502·5	868 4		12 9	9 4	6 1	9 5	6 4		2 2		0 4	0	0	4	2	0	0	1	0	0	0	1	27	0
Sikkim																											
Lachen .	0830					4 7	1 2	-4 3	4 3	5 2																	

(c) Means of 28 days.

(R) Register not received.

Sub-Division and station	Hour of observation I S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g p m of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew Point	Vapour pressure in mbs	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km per hour	Wind speed (Km p h): 62 or more	Wind speed (Km p h): 20 to 61	Wind speed (Km p h): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories																											
Damodar Catchment																											
Tilaiya	0830	..	..	.		17 3	12 5	7 8	10 6	55	..	1 2	.	5 8	0	0	25	1	0	1	0	0	2	14	7	6	0
	1730	.	.	.		20 5	13 4	6 4	9 6	41		1 2	.	4 1	0	0	30	1	0	1	1	0	0	12	15	1	0
Hazaribagh	0830	615	1017 4	947 0		15 8	11 8	8 3	10 9	61		1 1	.	5 3	0	0	27	1	0	4	0	1	2	9	10	4	0
	1730	„	1014 1	944 4		17 7	12 9	8 7	11 4	56		1 4	..	2 8	0	0	21	1	1	0	0	0	1	3	15	10	0
Konar	0830	.				18 2	13 5	9 2	11 6	57		1 8		6 1	0	1	28	2	0	0	2	0	0	12	13	2	0
	1730	..				20 0	15 6	12 2	14 2	61		0 8	.	8 4	0	2	29	2	0	2	1	0	0	9	17	0	0
Bokaro	0830	242	1017 5	989 1		14 8	11 4	8 0	10 7	64		0 6		3 3	0	0	25	1	0	0	0	0	3	14	7	6	0
	1730	..	1013 4	985 9	..	21 2	14 8	9 0	11 5	47	.	0 5		4 1	0	0	28	13	5	0	0	0	0	0	10	3	0
Maithon	0830	.	.		..	20 2	14 4	9 3	11 7	50		1 2		3 6	0	0	31	1	3	0	1	1	7	3	15	0	0
	1730		.			24 6	15 8	8 7	11 2	38		1 3		4 2	0	0	31	1	0	0	2	0	7	2	19	0	0
Ramgarh	0830	..	.	.		14 9	13 2	11 6	13 7	82		0 8		2 0	0	0	21	1	5	0	2	1	5	7	0	10	0
	1730	..	..	.	.	20 9	19 8	9 3	22 4	90		1 9		1 0	0	0	10	0	1	1	0	1	4	2	1	21	0
Panchet Hills	0830	..	..	..	..	17 2	13 8	10 7	12 9	66		2 3	.	4 4	0	0	22	0	0	0	1	0	14	0	7	9	0
	1730	..	..	..		22 3	14 8	7 8	10 6	41		2 2		1 3	0	0	8	0	0	0	0	0	0	0	8	23	0
Durgapur	0830	..	.	.		17 9	14 0	10 7	12 9	62		1 2		4 3	0	0	27	2	0	2	0	1	0	2	20	4	0
	1730			.	.	22 7	15 5	9 4	11 8	43		1 1		3 1	0	0	23	3	0	1	0	0	2	0	17	8	0
Mahanadi Catchment																											
Gumsahar	0830	..	.	..		15 1	12 0	8 8	11 5	67				.								.					..
Hirakud	0830	159	1017 9	999 4		19 5	15 9	13 1	15 2	67		1 8		1 6	0	0	16	8	1	0	2	0	1	0	4	15	0
	1130	„	1016 8	998 6		23 7	17 3	12 5	14 5	50		1 5	.	3 2	0	0	31	11	3	2	0	2	2	5	5	0	1
	1730	„	1013 8	995 6		24 2	17 6	12 8	14 8	50		3 0		0 7	0	0	10	1	0	0	0	1	1	0	7	21	0
Bhimkund	0830			..		16 6	13 4	10 6	12 8	69		1 6		1 7	0	0	16	1	0	0	0	0	3	0	11	15	1
	1730	.		.		22 7	15 6	9 6	11 9	43	..	2 1		0 2	0	0	3	0	0	0	0	0	2	0	1	28	0
Sonepur	0830	.	..	..	.	19 5†	17 4	16 0	18 2	81				3 2	0	1	25	4	0	8	1	8	0	5	0	5	0
Khujrawan	0830	..		..		17 3	14 5	12 2	14 2	73		0		2 4	0	0	29	0	2	0	15	1	10	0	1	2	0
	1730	.				22 6	15 9	10 2	12 6	49		0	.	3 3	0	0	31	3	8	0	8	1	1	0	10	0	0
Narmada Catchment																											
Bagra Tawa	0830			..		15 2	11 9	8 6	11 2	65		1 9		7 3	0	0	25	0	16	3	1	0	4	1	0	6	0
	1730					25 4	16 6	9 1	11 8	37		2 0		3 9	0	0	19	1	15	1	1	0	0	1	0	12	0
Punasa	0830	.	..	..	.	.	..	.			.	.	.	..	.		.			.	..	.	..			.	..
	1730	..		.		.	.	.				..					..	.				..					
Thikri	0830	..	.	.		20 2	14 0	8 2	10 9	47	.	1 5	.	.	.		..		..		..						
Sabarmati Catchment																											
Daroi	0830	.	.	.		17 5	13 0	8 5	11 3	57	.	.	.	.	.	.			.	,	..				.	..	.
	1730				..	26 8	17 6 (a)	10 2 (a)	12 7 (a)	37	..				.		.		..	..	..					..	.
Gandak Catchment																											
Jomosom	0830	..	.	..	..	2 7	0 7	−1 8	5 4	75	.	.	..		.							.		.	..	.	
	1730		.	.	.	5 4	2 8	−0 3	6 0	68		.	.	.			.				.	.		..	.	..	
Khudi Bazar**	0830	..			.					.			..		..	.	.	.				..	.	..	.		
	1730		..	..	.										..						.	.		..	.	.	
Timure	0830		..	..		5 2	1 5	−4·7	4 4	52	.	..	.		.			.				.	.	.		..	.
	1730	..	..	..		11 0	6 8	2 2	7 2	55		.		.				.				..	.	.	.	.	..
Pokhara	0830			.		11 7	9 5	7 3	10 3	75	..	2 7	.	1 7	0	0	12	9	1	0	0	0	0	0	2	19	0
	1130	..		.		17 4	12 1	7 3	10 3	52		2 5		3 6	0	0	22	0	0	0	16	5	0	0	0	9	1
	1730	.		..		16 5	11 9	7 9	10 7	57	..	3 8	.	1 3	0	0	10	0	0	2	8	0	0	0	0	21	0
Gorkha	0830	..			.	12 3	9 8	7 4	10 3	73		2 0														.	.
	1130	..		.	..	16 0	11 9	8 4	11 0	61	.	1 5	..	.		.					.					.	.
	1730	..		.	.	14 3	10 6	7 4	10·3	62		1 3	.											..			
Nuwakot	0830		.			12 9	10 2	7 5	10·5	71	..		.		.		..							.	.	..	
	1730	.	..	..		16·0	11 8	8 1	11 0	61	..	..		.	.							.		..	.	..	..
Ghaghara Catchment [Trans Himalayan Region]																											
Dailekh	0830	.	.	.	..	10 2	8·2	5 9	9·4	75	.	..		.								..	..	.	..	.	
	1730	.	.		.	12 1	9 7	7 3	10 4	75	.				.		.	.		.	.			..	..	..	
Dadeldhura	0830	..			.	7 9	3 9	−1·8	5·5	55	.	2 1		4 8	0	0	27	0	0	6	13	2	3	1	2	4	0
	1130					10·5	6 0	0 7	6·5	53		1 9		4 7	0	1	30	8	3	3	4	3	2	3	5	0	1
	1730	..		.		8 7 (c)	5 1 (c)	0 5 (c)	6 5 (c)	60	..	2 6		3 5	0	0	29	1	1	2	2	2	3	5	13	2	0
Sallayana	†0830	..	..		..	11 8 (m)	7 7 (m)	2·7 (m)	7 6 (m)	56	.	..			.	.	.				..	.	.		..	..	..
	††1730	.	.		..	12 2	9 1	5 6	9 3	66	..		..	.		..	.	..	..		..		..	.	.	..	..
Butwal	0830	..		..	..	16·3	12 7	9 4	11·8	64			..	.				.	.		.		.		..	..	
	1730	.	.	..		19 3	15 7	12 9	15 0	67	..	.	..				.	.	.	.	..	..	..		.	..	..

†Observations for 18 days. ††Observations for 28 days. *Data not available **Temporaly (reduced to class V c) Mean of 28 days (a) Mean of 30 days (m) Mean of 18 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY 1965 (PAUSA 11—MAGHA 11, 1886 SAKA)

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g p m of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km per hour	Wind speed (Km p h): 62 or more	Wind speed (Km p h): 20 to 61	Wind speed (Km p h): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bagmati Catchment																											
Katmandu* . .	0830	1324																									
	1130	,,																									
	1730	,,																									
Kosi Catchment																											
Chautara .	0830			.		9 5	7 2	4 7	8 7	73	..	.	..	.				.	.	.		..	.	..	.		.
	1730		.	.	..	14 1	9 1	4 4	8 5	53	..	.	.	..	.				.			.	..	..	.	..	.
Walungchung Gola	0830			.		1 4	—0 7 (b)	—4 0 (b)	4 6 (b)	69 b)	.			.	..	.		.	.	.	.		..	.	..	..	..
	1730	..		.		0 9	—0 1 (a)	—1 5 (a)	5 4 (a)	84	..	..	.	.	..	.	.	..	.	..		.			.	..	.
Taplethok .	0830			.	..	12 4	8 7	4 6	8 6	60	.	.	..	.					.	.	.		.	.	.	.	
	1730			.	.	13 5	9 0	4 1	8 2	53	..	..	..					.	..			.					.
Bhojpur . .	0830			.		12 2	8 4	4 7	8 6	61	..					.			.	.		.	.	.	.		
	1730			.	.	9 8	8 0	6 3	9 6	79	.			.	.				.	.	.	..	.	.	.		.
Taplejung .	0830	.				7 2	5·8	4 3	8 4	82	..	3 9	.	0 7	0	0	7	1	0	2	0	1	2	0	1	24	0
	1130	.	.	.		12 2	8 6	5 3	8 9	63	.	3 6		3 8	0	0	27	6	0	0	1	8	2	6	4	4	0
	1730	.		.		10 3	7 2	4 1	8 2	65		3 6		6 2	0	0	30	0	0	0	2	24	4	0	0	1	0
Okhaldhunga .	0830	.	.	.		8 6	6 3	4 0	8 2	74	.	1 0	.	0 3	0	0	3	0	0	0	1	2	0	0	0	28	0
	1130	.	.		.	12 8	8 3	3 9	8 2	56	.	2 0		2·2	0	0	19	0	1	0	1	5	4	6	0	12	2
	1730					9 1	7 2	5 2	8 9	77	.	4 1		2 9	0	0	16	2	0	0	0	0	1	10	3	15	0
Champur . .	0830	.	.			13 2	10 0	6 9	10 0	66			..	..	..	..		..			.		.	.	.	..	.
	1730	..	.	.		14 3	11 3	8 7	11 2	69	..	.	..	.	.	..		..	..	..	.	.		.	..		.
Angbung†	0830	,,	.			.	..	.		.	..		..	..			..	..	..	.	..	..		.	..	.	..
	1730	,,	.	.		.		.		.	..	.	..	.		.		.	..		.	.	.	.	.	.	.
Barahakshetra . .	0830	146	1018 7	1001 4		13 5	11 8	10 1	12 4	80		6 7		2 4	0	0	21	0	5	5	2	3	3	1	2	10	0
	1130	,,	1016 3	999 5	..	21 6	15 8	11 1	13 3	52	.	1 6		2 5	0	0	16	1	0	0	0	2	9	4	0	15	0
	1730	,,	1014 2	997 2	.	17 9	14 8	12 2	14 2	69	..	2 2	..	1 6	0	0	17	0	1	12	4	0	0	0	0	14	0
Tista Catchment																											
Gangtok . .	0830	1812	1526 9	821·5	.	7·5	6·1	4 5	8.5	83	.	4 2	..	0 5	0	0	6	1	4	0	0	0	0	1	0	25	0
	1130	,,	1514 8	820 7	..	11·9	8·4	5·0	8.8	64		4 3	..	2 1	0	0	20	0	1	0	0	7	11	1	0	11	0
	1730	,,	1499 4	819 1	.	9·7	7·5	5 4	9 0	75	..	6 0	..	1 3	0	0	10	0	0	2	3	4	1	0	0	21	0
Gezing . . .	0830	..	..	..	.	11·0	8 3	5·9	9·4	72	.	.	..	.	..	..	.	.	..	..	..	.	..				..
	1730	..	..	..	..	11·0	8 9	7·1	10·1	78	..	..	..	.	.	..		.	.	.	..	.	.	.	..	..	..

*Data included under 'Nepal'.
†Data not available.
(a) Mean of 30 days.
(b) Mean of 29 days

MONTHLY MEANS OF UPPER WINDS

January, 1965 (*Pausa* 11—*Magha* 11, 1886 *Saka*)

During the month, observations of velocity and direction of upper winds were made at 54 stations in India. Out of these, at 39 stations all the observations were taken by means of pilot balloons and at 14 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. In the case of Bangalore, the observations were taken by following radiosonde balloon by means of an optical theodolite. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data upto 9.0 km. a.m.s.l. are given under Table IV and data above 9.0 km. a.m.s.l. under Table V.

In Tables IV and V :

n—represents the number of observations;

V—represents the mean wind speed in metres per second irrespective of direction;

v—represents the resultant mean velocity in metres per second;

D—represents the direction of the resultant mean wind in degrees East of North.

Means and resultant winds are given in this publication for the following heights :

Surface, 0.15 km. a.g., 0.3, 0.6, 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0, 30.0, 33.0 and 36.0 km. a.m.s.l. Of these, the levels 1.5, 3.0, 5.4, 7.2, 9.0, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27·0 and 30.0 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150, 100, 70, 50, 30, 20 & 10 mb. respectively.

S. No.	Station	Lat. N	Long. E	Height of Anemometer head a.m.s.l. in metres	**Date of opening	Approximate times of flight (IST)			
1.	Agartala	23°53′	91°15′	17	28th Nov. 1951	0530		1730	2330
2	Ahmadabad	23°04′	72°38′	61	19th May 1928	0530*	1130	1730*	2330
3.	Allahabad/Bamhrauli	25°27′	81°44′	103	28th Feb. 1930	0530*	1130	1730*	2330
4.	Ambala	30°23′	76°46′	279	18th Mar. 1928	0530	1130	1730	2330
5.	Anantapur	14°41′	77°37′	365	12th Feb. 1946	0530		1730	2330
6.	Asansol	23°41′	86°59′	135	29th May 1942	0530		1730	2330
7.	Aurangabad/Chikalthan	19°51′	75°24′	583	7th Oct 1951	0530		1730	2330
8.	Bahraich	27°34′	81°36′	134	1st Oct. 1961	0530	1130	1730	
9.	Bangalore	12°58′	77°35′	936	19th May 1915	0530@	1130	1730@	2330
10.	Bareilly	28°22′	79°24′	181	12th Jan. 1943	0530		1730	
11.	Begampet	17°27′	78°28′	543	1st Sep. 1929	0530		1730	2330
12.	Bhagalpur	25°14′	86°57′	61	19th May 1950	0530		1730	
13.	Bhopal/Bairagarh	23°17′	77°21′	532	26th Feb. 1943	0530		1730	2330
14.	Bhubaneshwar	20°15′	85°50′	34	5th Dec. 1942	0530		1730	2330
15.	Bhuj/Rudramata	23°15′	69°48′	90	14th Sep. 1937	0530		1730	2330
16.	Bikaner	28°00′	73°18′	229	18th Oct. 1946	0530		1730	2330
17.	Bombay/Santa Cruz	19°07′	72°51′	27	14th May 1933	0530*	1130	1730*	2330
18.	Calcutta/Dum Dum	22°39′	88°27′	13	14th May 1921	0530*	1130	1730*	2330
19.	Cochin/Willingdon†	09°56′	76°14′	13	16th Mar. 1942	0530		1730	2330
20.	Dehra Dun	30°19′	78°02′	692	1st Oct. 1958	0530		1730	
21.	Dibrugarh/Mohanbari	27°29′	95°01′	112	1st June 1948	0530	1130	1730	2330
22.	Gadag	15°25′	75°38′	650	3rd May 1943	0530		1730	2330
23.	Gangtok	27°20′	88°37′	1764	31st May 1963	0830		1730	
24.	Gauhati	26°05′	91°43′	55	11th Mar. 1955	0530*	1130	1730*	2330
25.	Gaya	24°45′	84°57′	119	19th Mar. 1937	0530		1730	2330
26.	Gopalpur	19°16′	84°53′	24	15th Feb. 1946	0530		1730	2330
27.	Gorakhpur	26°45′	83°25′	83	5th Jan 1943	0530		1730	
28.	Gwalior	26°14′	78°15′	208	7th May 1938	0530	1130	1730	2330
29.	Imphal/Tulihal	24°46′	93°54′	782	8th Mar. 1952	0530	1130	1730	2330
30.	Jabalpur	23°10′	79°57′	402	30th July 1928	0530		1730	2330
31.	Jagdalpur	19°05′	82°02′	562	25th Mar. 1948	0530		1730	2330
32.	Jaipur/Sanganer	26°49′	75°48′	403	6th June 1953	0530		1730	2330
33.	Jamshedpur	22°49′	86°11′	144	23rd July 1942	0530		1730	
34.	Jharsuguda	21°55′	84°05′	240	1st May 1944	0530		1730	2330
35.	Jodhpur	26°18′	73°01′	229	15th Oct. 1934	0530*	1130	1730*	2330
36.	Lucknow/Amausi	26°45′	80°53′	133	20th Nov 1950	0530		1730	2330
37.	Madras/Minambakkam	13°00′	80°11′	29	8th Apr. 1926	0530*	1130	1730*	2330
38.	Mangalore/Bajpe	12°55′	74°53′	104	4th June 1928	0530		1730	2330
39.	Minicoy	08°18′	73°00′	15	14th Apr. 1941	0530	1130	1730*	2330
40.	Nagpur/Sonegaon	21°06′	79°03′	316	23rd Apr. 1943	0530*	1130	1730*	2330
41.	New Delhi/Safdarjung	28°35′	77°12′	227	16th Nov. 1929	0530*	1130	1730*	2330
42.	Poona	18°32′	73°51′	593	5th Jan. 1925	0530		1730	2330
43.	Port Blair	11°40′	92°43′	95	13th Mar. 1945	0530*	1130	1730*	2330
44.	Raipur	21°14′	81°39′	308	15th July 1944	0530		1730	2330
45.	Raxaul	26°59′	84°51′	83	28th Oct. 1957	0530		1730	
46.	Siliguri/Baghdogra	26°38′	88°19′	140	7th June 1953	0530		1730	2330
47.	Srinagar	34°05′	74°48′	1595	1st Aug 1962	0530*		1730*	
48.	Tiruchchirappalli	10°46′	78°43′	96	22nd June 1936	0530		1730	2330
49.	Trivandrum	08°29′	76°57′	73	8th Dec. 1928	0530*	1130	1730*	2330
50.	Udaipur	24°35′	73°42′	587	24th June 1947	0530		1730	2330
51.	Vengurla	15°52′	73°38′	8	20th Nov. 1941	0530		1730	2330
52.	Veraval	20°54′	70°22′	17	13th Oct. 1941	0530		1730	2330
53.	Vijaywada/Gannavaram	16°32′	80°48′	32	1st Apr. 1957	0530		1730	2330
54.	Vishakhapatnam	17°43′	83°14′	10	24th Sep. 1928	0530*	1130	1730*	2330

* Radio wind ascents.

@Radiosonde ascents followed by optical theodolite

† Naval Meteorological Office.

** Refers to date from which data are available.

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 0 km. above mean sea level

January, 1965 (Pausa 11—Magha 11, 1886 Saka)

Station	AGARTALA												AHMADABAD											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0 3	0 2	360	31	0 8	0 7	290	31	0 5	0 3	334	31	1 7	1 2	047	31	3·5	1 1	156	31	2·0	1·3	039
0·15 a. g. .	30	2 0	1 1	035	31	2·6	2 3	292	31	2 7	1 6	338	31	7 0	5 1	054	30	4·3	3 9	082	31	3 4	1 9	018
0·3 a. m. s. l. .	30	2 6	1 7	010	31	2 8	1 9	291	31	2 6	2·0	331	31	7 1	5 4	053	30	4·8	4·2	087	31	3 3	2 0	025
0·6 ,, .	30	2 7	1 9	353	31	2 5	1 5	285	31	2 8	2 1	312	31	6 4	3 6	065	30	4·5	2·9	094	31	3 6	2 4	028
0·9 ,, .	30	3 0	2 1	335	31	2 5	1 2	264	31	2 9	2 0	294	31	5 5	3 0	070	30	4·1	1.7	087	31	3 5	1 9	029
1·5 ,, .	30	4 7	3 1	309	31	4 0	2 3	277	31	4 6	3 1	285	31	5 1	0 8	226	30	4·0	0 5	258	31	3 9	0 7	340
2·1 ,, .	30	7 7	5 7	300	31	7 3	6·0	291	30	8·2	6 9	287	31	5 6	2 8	252	30	5·4	2·4	256	31	5 8	2·3	251
3·0 ,, .	28	12 6	11 1	287	31	11 1	10·1	285	29	12·1	10 2	280	31	7 7	5 0	252	30	7 6	4 8	251	31	7 5	4 5	259
3·6 ,, .	25	15 0	13 5	286	29	14 0	13 9	281	3	9 3	8.9	263	31	8·9	6 6	260	30	8 7	6·4	256	31	9 4	5·9	266
4·5 ,, .	17	14 5	14 1	258	24	16 3	15 9	271	1	11·0	11 0	252	31	11 0	9 5	262	29	11 1	9·8	268	31	11 0	9·1	268
5·4 ,, .	10	15 1	14 1	273	19	18 2	17 2	278					31	15 4	14 5	260	29	14 9	14·1	266	31	15 3	14·5	261
6·0 ,, .	10	15·7	14 6	266	18	19 8	18 8	277					31	18 6	17 9	262	29	18·1	17 2	265	31	17 5	16·6	260
7·2 ,, .	2	13 0	11 5	267	8	21 6	18 6	277					30	17 3	16 3	266	25	23·5	22 1	258	30	21 9	20 3	258
9·0 ,, .	1	16 0	16 0	285	5	25 6	22 5	254					28	24 9	23 8	263	18	27 2	25·9	269	27	24 8	23 3	262

Station	AHMADABAD				ALLAHABAD/BAMHRAULI												AMBALA			
Time in I. S. T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0 9	0 8	014	31	0·1	0 1	287	31	1·0	0 9	261	31	1·2	0·6	292	31	0·3	0 2	272	31	1·7	1 1	317
0·15 a. g. .	30	6 6	4·7	029	31	5 6	3 3	317	31	3·2	1 7	269	31	4·5	3·9	304	31	5 6	3·8	319	30	8 5	6 0	335
0·3 a. m. s. l. .	30	6 7	5 0	036	31	5 6	3 3	317	31	3 5	1 9	271	31	4·5	3·9	304	31	5·7	3 8	319	30	3·4	2 5	334
0·6 ,, .	30	6 0	3 9	047	31	5 8	3 9	308	31	4 6	2·7	294	31	4·9	4·0	306	31	5·7	4 2	310	30	8 2	6 2	331
0·9 ,, .	30	5 2	3 2	057	31	6·1	4 4	315	31	5 6	4 0	301	31	5·5	4·6	304	31	6·1	4 9	302	30	8 1	6 3	326
1·5 ,, .	30	4 3	1 8	044	31	8 2	6 8	302	31	8 0	6 3	305	31	7·7	6·6	301	31	7·1	6·6	294	30	6·9	5 1	314
2·1 ,, .	30	5 5	0 1	321	31	10·4	9 0	301	31	9 7	8 0	303	31	10·0	9 1	296	27	8 3	7·2	296	30	6·9	5·3	309
3·0 ,, .	29	7·3	1·5	253	31	13 0	11 8	291	27	10 7	9 7	297	31	11·5	10·2	290	20	10·1	8 9	285	23	5 3	3·9	275
3·6 ,, .	18	6 9	1 3	304	31	14 7	13 4	286	26	13·0	11·8	288	31	12 6	11 5	287	5	11 0	10·1	291	9	5 9	5·5	270
4·5 ,, .	11	5·5	2·2	295	31	16 4	15 2	280	25	13·7	12 8	280	31	15·9	14 9	278	1	11·0	11 0	300	1	10·0	10 0	288
5·4 ,, .	7	8 9	7 7	272	31	18 7	17 9	275	24	15·3	14.3	277	31	18 3	17 3	279								
6·0 ,, .	7	9 9	9·8	269	31	21·7	20·4	269	22	18 3	16·9	279	31	20·1	18·6	277								
7·2 ,, .	2	11·5	11·4	237	31	27·1	25·5	266	14	24·7	23 6	274	31	26 7	24 8	271								
9·0 ,, .					26	30 5	28·2	271	9	26 7	25·7	265	26	29 5	27·6	270								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 km. above mean sea level

January, 1965 (Pausa 11—Magha 11, 1886 Saka)

Station	AMBALA												AMINI											
Time in I. S. T.	1130				1730				2330															
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·1	1·3	312	31	2 9	2 3	306	31	2 2	1·6	317	(P. B Observations to commerce from May 1965)											
0·15 a. g.	30	5·3	2·8	331	31	6 5	5 0	301	31	8·2	6·5	328												
0·3 a. m. s. l.	30	2 5	1·4	321	31	3 7	2·8	299	31	3·8	2·8	324												
0·6 ,,	30	6·9	3·2	332	31	7 0	5·0	309	31	8 0	6·4	328												
0·9 ,,	30	7·6	3 8	324	31	8 2	6 5	324	31	7·1	5·4	327												
1·5 ,,	30	7 1	4 0	312	31	8 6	6 5	316	31	6·2	4 9	307												
2·1 ,,	29	6 8	5·1	308	30	8 0	6.2	311	31	6 7	5·0	301												
3·0 ,,	29	6·4	4·8	298	29	7 8	5·5	302	25	6·8	5·2	271												
3 6 ,,	28	7 0	5 3	280	26	8 0	6 7	299	10	8·1	6·9	263												
4·5 ,,	25	9 6	8·4	280	25	11 0	10·0	291																
5·4 ,,	25	13·1	12 0	279	21	13·9	12 6	284																
6·0 ,,	22	17·3	16 1	272	18	17 8	16·5	277																
7·2 ,,	12	23 1	21 8	282	6	20 8	19 2	274																
9·0 ,,																								

Station	ANANTAPUR												ASANSOL											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·9	0·6	100	31	4 1	4 0	086	31	4 1	3 9	095	31	0 7	0·7	297	31	1·6	1·4	317	31	0·9	0·6	318
0·15 a. g.	31	5 0	4·5	102	31	6·3	6 3	085	31	8·6	8 5	100	31	5 2	3·8	334	31	3 8	3·0	318	31	6·5	4·8	347
0·3 a. m. s. l.													31	5 5	4·1	340	31	3 8	3·0	317	31	6·8	4·9	345
0·6 ,,	31	5·3	4·7	111	31	5·6	5 5	088	31	9 0	8·9	102	31	6·1	4·5	336	31	4·5	3·7	311	31	6·3	4·3	329
0·9 ,,	31	6·7	6·0	102	31	5·7	5·6	092	31	8·3	8 0	109	31	6·4	5 0	320	31	4·9	4·1	311	31	5·8	4·1	310
1·5 ,,	31	7·0	5·8	081	31	6·4	5·8	092	31	5·4	4·5	083	31	7·6	6·5	299	31	6·4	5·8	301	31	6·9	5 8	297
2·1 ,,	30	6·1	5·2	073	30	6·0	5·4	091	31	5·6	4·0	068	28	8·8	8·0	298	29	9·5	8·8	305	30	9·4	8·7	296
3·0 ,,	28	5·5	3·7	070	27	5·7	3·5	071	30	5·3	3·5	058	22	12·0	10 6	296	29	13·6	12·3	297	25	11·6	10·4	293
3·6 ,,	27	5·8	2·2	079	20	6·0	1·3	358	28	5 6	2 8	042	8	11·9	11·1	301	24	13·5	12·6	291	14	11·9	11·6	292
4·5 ,,	23	6·5	0·9	221	19	6·3	1·3	262	6	7·5	2 3	328	3	13·7	13·2	295	21	15·5	15·0	285	1	13·0	13 0	273
5·4 ,,	22	8·4	2 6	244	14	6·4	1·7	285	2	10·5	8·8	329					15	15·7	15·1	284				
6·0 ,,	21	8·9	4·5	245	9	6·9	1·9	246	1	6 0	6 0	276					14	20·1	18·9	283				
7·2 ,,	20	9 3	6·6	240	7	7·0	3·4	233									7	22·1	20·9	265				
9·0 ,,	13	11·0	7·9	240	3	10·7	8·8	226									5	30·6	28·4	265				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 0 Km. above mean sea level

January, 1965 (Pausa 11—Magha 11, 1886 Saka)

Station	AURANGABAD/CHIKALTHAN												BAHRAICH											
Time in I. S. T.	0530				1730				2330				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0 6	0·2	044	31	1 9	1 0	096	31	0 5	0 3	093	31	1 0	0 8	282	31	0 8	0 3	281	31	0·8	0 7	276
0·15 a. g.	31	5 6	4 5	088	31	4 3	2 2	080	31	6·0	5 1	065	30	5·5	3 8	310	31	3 0	1·4	304	31	4 0	3·1	284
0·3 a. m. s. l.													30	5·7	3·5	315	31	3·0	1·4	311	31	3 9	3 0	384
0·6 ,,													30	7 0	5 2	311	31	6 0	3 8	297	31	5 2	3 9	292
0·9 ,,	31	6 8	5 4	104	31	4 0	1 9	074	31	7 0	5 8	071	30	7 5	5 3	304	31	7 0	4 6	302	31	6 8	4 5	290
1·5 ,,	31	6 3	4·0	117	31	4·0	1 9	075	31	6·0	4 7	087	29	8 4	6 7	298	31	8 0	5 3	295	31	8 6	6 6	298
2·1 ,,	31	5·7	1·0	108	30	4 9	2 1	084	30	5 9	3·5	094	29	9 9	8 3	300	31	10·0	8·1	300	31	10 1	8 8	303
3·0 ,,	28	6 0	1 7	313	21	6 3	1 8	055	26	5·8	2·4	097	27	11·0	9 8	295	28	11·0	10 0	299	30	11·2	10 4	306
3·6 ,,	13	4·3	2 2	317	16	5 8	3·7	023	17	6·2	3.1	038	19	11 5	10 4	291	27	11 8	10 8	296	29	12·0	10·0	300
4·5 ,,					14	5·4	2 6	345					9	11 9	11 5	287	26	13 0	12·6	292	26	13·2	12·5	293
5·4 ,,					11	6 1	4 1	314					5	13 6	13 5	290	24	16 0	15 0	282	26	16 0	15·3	290
6·0 ,,					8	7 0	5 7	273					2	14 5	14 3	289	20	18 0	17·0	281	22	17 8	16 6	286
7 2 ,,													2	13 5	13 0	287	13	21·0	19 7	278	17	18 9	17.4	283
9·0 ,,																	4	14 0	13·7	294	5	20·8	17 6	279

Station	BANGALORE												BAREILLY							
Time in I. S. T.	0530@				1130				1730@				2230				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3 2	3·0	091	31	3 5	3·2	092	31	3·4	3 1	090	31	3 5	3·4	093	31	1·1	0 6	314	31	1·4	1 3	289
0·15 a. g.	23	7 5	7 0	091	31	5 5	5 3	091	31	6·2	6 0	092	31	9 5	9 3	097	29	5·8	4 3	323	31	4·4	3·7	290
0·3 a. m. s. l.																	29	5 4	4·1	324	31	4 1	3 1	292
0·6 ,,																	29	7·7	5 9	313	31	5·7	4·3	287
0·9 ,,																	28	8 4	7 1	306	31	6·6	5·3	291
1·5 ,,	23	8·9	8·2	079	30	6·8	6 6	088	31	6·0	5·8	092	31	8·0	7·4	090	27	9·4	8 0	305	31	8 8	7 4	305
2·1 ,,	22	6·8	6·1	076	30	6·9	6·4	081	31	5·8	5·6	084	31	5·3	4·5	081	27	10·3	8·5	303	31	10·1	8 7	301
3·0 ,,	21	5·2	3·0	076	25	5·4	3·6	083	29	4.9	3·0	055	30	5·1	3 4	064	23	8·8	7·8	297	30	10.6	9 5	300
3·6 ,,	21	5·5	1·8	089	19	5·8	3 0	078	28	5·6	1·6	037	29	5·5	1·9	058	22	9·8	8·4	299	26	10·8	9·8	300
4 5 ,,	21	6 9	1 5	085	17	7·2	2 5	088	28	6 5	0·5	023	23	6·5	1·8	096	18	11·9	10·6	283	21	12·3	11 2	284
5·4 ,,	20	7·4	0·6	142	15	6·7	1 9	245	28	7·2	1·7	256	14	5·6	3·5	246	13	14·1	12·6	278	17	16 0	14 8	278
6·0 ,,	19	6·5	2·8	241	14	5·1	1·3	172	27	7 0	3 3	245	7	5·4	5 2	241	5	16·2	15 8	275	13	18·1	17 0	273
7·2 ,,	18	9 2	7·1	262	12	6·8	3·4	247	27	8·9	6·6	258	3	7·7	7·1	252	2	11 0	10·8	294	1	13·0	13·0	310
9·0 ,,	14	13·6	10 1	255	10	12·3	10·7	260	20	16 3	13·2	253	1	10·0	10·0	245	1	11·0	11·0	295				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 0 Km. above mean sea level

January, 1965 (Pausa 11—Magha 11, 1886 Saka)

Station	BEGAMPET												BHAGALPUR								BHOPAL/ BAIRAGARH			
Time in I. S. T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	1 1	0·7	114	31	2 7	2·4	093	31	1·6	1·0	090	31	1·3	1 1	253	31	2 3	2 2	274	31	2 2	1·7	088
0·15 a. g. .	31	4·6	4 3	118	31	4·7	4 1	095	31	5 5	4 8	076	31	4 2	2·7	286	31	5·0	4 4	281	31	6 4	5 0	086
0·3 a. m. s. l.													31	4·4	2 6	301	31	5·2	4·7	283				
0·6 „ .	31	3·3	3·1	116	31	4·4	3·8	095	31	4 3	3·7	104	31	5·1	3 7	311	31	5 4	4 9	287	31	5 5	4 2	085
0 9 „ .	31	6·1	5·3	116	31	5 0	4·2	096	31	5 8	5 1	108	31	5 8	3·9	308	31	5·8	5·0	290	31	6·9	4 4	087
1 5 „ .	29	6 2	4 7	085	31	4·9	3·8	094	31	5 9	4·2	091	31	7·7	5 6	294	31	8·0	6·2	291	31	5 8	0·8	346
2 1 „ .	28	6·4	5·1	052	31	4·9	2 8	076	30	5 9	3 4	060	27	10·5	7 9	299	25	10·2	7·8	298	30	7·2	3 6	299
3·0 „ .	28	6 1	3 6	040	31	4 9	1 9	043	29	5 4	2 8	020	13	11 6	9·9	297	15	11·8	11 5	299	29	8 6	5 7	291
3·6 „ .	27	5 4	2 3	024	29	5 4	1·9	016	17	5 2	2·5	334	7	12 0	7·0	292	8	15 9	15·4	300	27	9 1	6 9	289
4·5 „ .	25	6 4	1 4	308	26	6·4	2·1	297	1	2 0	2 0	182	3	16 6	15 9	273	2	10.0	9 8	281	26	10·1	8·1	281
5·4 „ .	20	6 7	4 3	293	22	7·7	4 5	286													23	14 2	12 9	279
6·0 „ .	17	8 3	6 4	290	16	8 6	4·9	284													17	14 6	14·2	271
7 2 „ .	8	9·5	7.9	303	7	8·6	7 7	271													7	13 7	13 2	274
9·0 „ .	2	15·0	10·7	280	3	17 0	16 7	269																

Station	BHOPAL/BAIRAGARH								BHUBANESHWAR												BHUJ/RUDRAMATA			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface. .	31	2·3	1 3	035	31	2 5	1 7	050	31	1 3	1 0	359	31	2 2	1 2	021	31	1 7	0 5	155	CALM			
0·15 a. g. .	31	3 3	1·6	032	31	7 1	5 9	050	30	3 2	2·0	005	30	3·1	1·6	032	30	4 3	2 5	160	29	4·7	3·7	012
0·3 a. m. s. l.									30	3 0	1 3	014	30	2 9	1 3	026	30	4·3	2·0	170	29	5 2	4·1	023
0·6 „ .	31	3 3	1·5	037	31	6 6	5·3	050	30	3·5	1 6	014	30	2 6	1 2	017	30	3·7	0·6	174	29	5 7	3·6	026
0·9 „ .	31	3 4	1·8	032	31	6 5	4·9	053	30	4 1	2 4	012	30	2·5	1·4	003	30	3·6	1·4	329	29	4·8	2·4	033
1·5 „ .	31	3·5	1·1	337	31	4 1	1 0	023	29	5·8	4 1	358	30	4·5	3 1	334	30	5 1	4·1	343	29	4 3	0·5	180
2·1 „ .	31	5 7	3·1	315	30	5·7	2·0	276	29	6 3	2·1	261	25	7·0	5 8	326	30	5 8	4 3	333	29	4·8	2·0	213
3·0 „ .	30	8·2	5·9	289	28	7·0	4 3	271	27	6 9	5 7	313	22	7·3	6·5	319	28	6·3	5·2	306	29	7·3	4·0	247
3·6 „ .	28	9 5	7 0	277	23	8 5	5·7	287	23	8 0	6·8	298	22	9 3	8 1	300	3	3.0	2·7	295	28	8 2	5·6	265
4·5 „ .	27	11 5	9 9	277					19	10 3	8·8	284	17	9 8	8 2	289					28	10 8	9 0	267
5·4 „ .	23	13·1	12·1	273					11	13 0	9 6	274	13	12 7	11 5	274					27	14 1	13 3	266
6·0 „ .	22	14·4	12 9	266					7	13.0	10·5	289	11	12·5	10 1	270					27	15 5	14 9	265
7·2 „ .	14	16·5	15 0	268					2	9 5	9 4	271	5	13 2	12 4	279					19	18 8	18·2	257
9·0 „ .													1	20·0	20 0	250					3	16 7	16·7	269

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 0 Km. above mean sea level

January, 1965 (Pausa 11— Magha 11, 1886 Saka)

Station	BHUJ/RUDRAMATA								BIKANER								BOMBAY/ SANTACRUZ			
Time in I.S.T.	1730				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2 4	1 6	021	31	1 2	0 9	344	31	0 5	0 3	106	31	0 8	0·2	352	31	0 8	0 7	037	31	0·6	0·6	045
0·15 a. g.	31	3 9	2 7	025	31	5 2	3 0	341	29	5 8	3 8	101	31	3 6	1 6	011	30	7 1	4 1	033	31	4·7	4·0	026
0.3 a. m. s. l	31	3 9	2 5	023	31	5·3	3·4	359	29	5 0	3 2	102	31	3 1	1 6	014	31	6 1	4·0	032	31	4 6	4·0	033
0 6 ,, .	31	3 5	2 4	026	31	5·4	3·5	022	29	5 1	2 9	103	31	3 6	1 8	015	30	6 7	3 7	027	31	5 0	3 8	053
0·9 ,, .	31	3 5	2 1	337	31	5·1	3·2	032	29	5 0	0 7	120	31	3 7	1·4	022	30	5 7	2 2	003	31	5 3	3·3	057
1·5 ,,	31	3 8	0 5	314	31	4·6	0 6	061	29	5·0	1 8	285	30	3 9	1 0	272	30	4 9	2·7	235	31	4 8	2·5	084
2·1 ,, .	30	5 1	2·4	246	31	5·2	1 9	250	27	5·1	3 4	289	30	5 1	3 1	263	29	6 0	4 2	251	31	5·3	1·8	143
3·0 ,,	30	7 0	4 4	258	30	7·0	4 3	251	23	7 0	6·0	297	26	8·8	7 6	267	26	7 7	7·6	268	31	5 9	1·5	239
3·6 ,,	27	8 9	5 3	268	14	8 0	5 4	268	21	8 9	7·5	289	26	11 0	9 4	273	1	17 0	17·0	270	31	6 7	3·7	257
4·5 ,, .	27	11 2	9·1	268	1	3·0	3 0	031	16	12·9	12 1	278	24	13 1	12 2	273					31	8 6	7 5	246
5 4 ,, .	26	12 7	12 0	269					13	16 1	15 5	273	18	15 0	12 5	268					31	10·7	9 5	243
6 0 ,, .	25	13 9	12 9	267					10	20 4	19 8	271	10	20 4	15 0	255					31	12 3	11 3	245
7 2 ,, .	16	17 4	16 3	265					3	22 0	20 6	274	1	41 0	41·0	256					31	14 9	13 0	253
9 0 ,, .	1	14 0	14 0	276																	31	22 5	21 0	251

Station	BOMBAY/SANTACRUZ												CALCUTTA/DUM DUM											
Time in I.S.T	1130				1730*				2330				0530*				1130				1730*			
Ht. in Km	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1 2	0 7	091	31	4·5	3·9	322	31	1 3	1 2	004	CALM				31	1·1	0 7	334	31	0 3	0 3	299
0 15 a. g. .	31	3·6	2 7	080	31	5·8	5 1	304	31	5·0	4·4	013	31	4 2	2 4	352	31	2·9	9 1	345	31	3 3	0·5	313
0·3 a. m. s. l.	31	4 3	3 3	086	31	5 1	4 4	302	31	5·9	5 3	007	31	4 1	2.4	352	31	3 0	2·1	347	31	3 6	2 8	322
0 6 ,, .	31	5 3	4 0	096	31	3 9	1·9	314	31	5 9	4 9	012	31	4·1	2 7	353	31	3 4	2·5	331	31	3.5	2·9	324
0·9 ,, .	31	5·3	3 7	101	31	3·7	1 4	070	31	5 4	3 7	030	31	4·4	3·4	340	30	4 6	3·6	325	31	4 1	3·3	316
1·5 ,, .	31	5 3	2·4	125	31	4·6	2 5	081	31	5·4	3·2	081	31	6 2	5 6	322	29	8 0	6 6	314	31	6·5	5·5	311
2 1 ,, .	31	5·7	1 4	139	31	6·2	3 5	099	31	6·5	3·8	115	31	7·8	7 2	317	26	10 1	9·1	309	31	8 8	7·7	304
3·0 ,, .	31	6·7	1 6	271	30	5·6	0 9	084	31	6·9	1·7	167	31	9 6	8 7	299	25	11 4	10·4	300	31	10 9	10·2	296
3 5 ,, .	30	7 1	2 9	267	30	6 0	2 6	235	25	5 8	2 4	250	31	10 3	9·7	249	20	11 6	10 8	301	31	11 6	10·3	290
4·5 ,,	29	7 9	6 0	259	31	7 4	5 1	239	23	7·3	4·9	257	31	12 2	11 3	288	14	13·6	13 0	296	31	14 1	13 2	283
5 4 ,,	28	9 2	8·2	257	31	10 3	8 9	248	17	8 1	7 4	266	31	14·4	13 2	285	10	14 7	13 5	292	31	17·5	16 3	282
6 0 ,, .	27	10 2	9 2	255	31	12 2	10 5	249	13	9 0	8·3	284	31	16 2	15 1	282	10	16 5	14 6	287	31	19 6	18 5	279
7 2 ,, .	26	13·5	11 7	261	31	13 9	11·2	248	4	16 0	15 3	295	31	61 9	18 4	276	6	20 7	17 4	281	31	23 9	22 4	271
9 0 ,,	22	21 7	18 2	262	31	21 8	20 0	258					31	23·7	22 1	268	6	21 7	20·5	275	31	28 8	26 9	268

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 0 Km. above mean sea level

January, 1965 (Pausa 11—Magha 11, 1886 Saka)

Station	CALCUTTA/ DUMDUM				COCHIN/WILLINGDON †												DEHRADUN							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·4	0 1	326	31	2 0	1·7	060	31	3 3	3·2	273	31	0·9	0·5	088	31	0 3	0·3	030	31	0 7	0·3	265
0·15 a. g.	31	3 1	1·1	355	31	5·4	4·7	081	31	5 2	4 8	275	30	4·3	2 0	099	31	1·4	0 9	097	30	2·4	1·7	261
0·3 a. m. s. l.	31	3·0	1·7	351	31	4 9	3·8	086	31	4 5	3 8	294	30	4 6	2 4	102								
0·6 ,,	31	4·0	2 7	337	31	3 8	2 8	077	31	3 7	3 1	358	30	5 5	4 1	098								
0·9 ,,	31	5·0	4 1	323	31	3 4	2 7	070	31	4 5	3 9	044	30	6·0	5 3	100	31	1 3	0 9	118	30	2·9	2·3	288
1·5 ,,	31	7·2	6 5	314	31	4 0	2 9	067	31	6 2	5 8	083	30	4 5	3 6	089	31	2·3	0 8	303	30	2·4	1·0	281
2·1 ,,	30	9·0	8 3	306	31	5 2	3 0	091	31	6 4	5 2	088	29	4 7	3 7	079	31	4 0	2 3	309	30	4·4	2 8	297
3·0 ,,	20	10·7	9 2	289	29	5 5	1 7	073	31	5 7	2 8	077	25	6 0	3 3	091	29	6 0	3 9	309	25	5·0	4 0	294
3·6 ,,	2	5·5	5 4	244	23	6 2	1 9	062	28	6 1	2 2	096	13	7 5	3 0	089	25	6 1	4 1	283	21	5 7	3 9	302
4·5 ,,					9	7 2	3 7	077	24	8 1	2 8	103	1	12 0	12 0	250	10	9 3	9 3	263	19	7 9	6·2	297
5·4 ,,					2	3 0	2 7	174	20	7 9	1 8	080					2	12 5	12·3	276	16	13 1	12·2	280
6·0 ,,					1	7 0	7 0	250	15	6 0	1 8	340									16	16 9	16 2	276
7·2 ,,									11	10 1	6 3	243									9	23 1	21 8	255
9·0 ,,									6	16 3	12 3	258									1	21 0	21·0	266

Station	DIBRUGARH/MOHANBARI												GADAG							
Time in I.S.T.	0530				1130				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0 4	0 4	053	31	0 5	0·4	046	31	0 4	0 2	037	19	0 3	0 2	027	31	4 4	4·1	124	31	4 8	4 1	090
0·15 a. g.	29	4 1	4 0	066	31	2 5	1 0	058	31	2 4	0 8	042	19	2 6	2 4	048	31	7 0	6 6	124	31	6 6	5 6	089
0·3 a. m. s. l.	29	3.9	3 7	062	31	2 0	1·0	058	31	2 2	1 3	029	19	2·5	2 3	047								
0·6 ,,	29	2 7	2 4	053	31	2 0	1 0	062	31	1 9	1 1	058	19	1 9	1·7	057								
0·9 ,,	29	2·0	1·3	041	31	2·0	0 8	088	31	1 7	0 5	094	19	1·7	1 5	079	31	7 8	7 4	116	31	6·5	5·4	087
1·5 ,,	29	2·3	0·2	107	30	2 1	0 7	188	30	2·8	1 2	190	19	1 7	0 9	201	31	8 8	7 5	088	31	6·5	5·6	086
2·1 ,,	29	2·5	1·4	195	30	2 3	1 3	183	30	3 4	2 4	203	19	2 9	2·1	234	30	8 2	6 8	073	31	6 7	5·6	087
3·0 ,,	26	2·3	0 3	252	28	3·0	1·2	164	27	3 4	1 6	190	19	3 4	2·3	250	29	6 2	3 9	072	29	5 7	3 8	077
3·6 ,,	23	5·3	2·6	290	28	5 0	0·7	280	27	4·6	0 4	229	15	5·9	4 6	283	29	5 7	1 8	059	25	5·4	2 7	047
4·5 ,,	21	11·0	9·4	279	24	9 0	4 0	220	25	12 2	7·6	270	1	8 0	8 0	326	28	6 2	0 2	239	24	6 3	1 2	029
5·4 ,,	16	14·0	13·3	276	19	12 4	9 0	277	21	16 0	16 0	266					27	8 4	2·9	246	22	8 1	1 2	297
6·0 ,,	6	14·0	12·8	278	15	14·5	10 6	278	17	17 8	15 3	272					26	9 7	5 5	249	22	8·9	2·8	271
7·2 ,,	2	13·5	13·4	307	9	22 2	17 3	268	6	18·0	15 0	308					21	10.7	8 0	265	16	9·8	7·2	272
9·2 ,,					9	24 2	15·2	282									15	16·1	14 0	274	13	15.0	13 4	265

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

January, 1965 (Pausa 11 —Magha11, 1886 Saka)

Station	GADAG				GANGTOK								GAUHATI											
Time in I.S.T.	2330				0830				1730				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4 7	3 5	088	31	0·4	0 4	011	31	0·9	0·7	175	CALM				31	1 0	0 8	007	31	0·1	0·1	045
0·15 a. g.	31	8 5	6 6	089	22	1.4	0 6	016	15	2·5	2 5	171	31	1·7	0 7	086	31	2·2	1·6	025	31	2·8	2·0	032
0·3 a. m. s. l.													31	2 0	0 8	087	31	2 8	1·7	046	31	2·8	2·0	034
0 6 ,,													31	2 4	0 9	092	31	2·6	1·8	078	31	2·6	1·2	034
0·9 ,,	31	8 6	7 4	091									31	2 8	0 7	072	31	3 0	1 6	102	31	2·5	0·3	317
1·5 ,,	31	8 0	7 2	089									31	3 3	0 5	356	31	3·7	1·1	135	31	4 2	2·4	256
2·1 ,,	31	7 5	6 7	080	22	1 0	0 3	318	15	2 3	2·2	167	31	4·4	1·2	277	31	6 4	0·9	189	31	4·7	3·2	243
3·0 ,,	30	5·9	3·9	065	22	1 4	0 6	181	11	1 5	0 4	302	30	8 5	6·4	288	31	6 7	4·1	267	31	8·9	6·8	280
3·6 ,,	27	5·7	1 8	054	20	4 7	2 2	261	11	3 0	2 4	308	30	12 9	11 7	289	31	12·7	10·4	280	31	13 6	11·9	280
4·5 ,,	20	6 5	0·6	241	18	12 2	8 6	323	7	10 3	10 0	254	30	19 4	18 5	288	29	17 1	16·4	277	31	17·6	16·8	283
5·4 ,,	14	7 9	2 4	270	16	12 1	10 0	272	4	6·3	5 0	295	30	23 1	22 3	284	28	20·8	20 0	277	30	21·5	20·5	283
6 0 ,,	9	8 3	6 2	259	15	13 3	11 6	279	4	9 3	8 1	305	29	23 9	22.8	284	25	22·5	20 5	276	30	24·4	23·1	284
7 2 ,,	5	6 0	5 0	234	13	14 5	9 3	280	4	19 7	18 5	298	27	28 6	27 4	283	23	27 0	25·6	273	30	29·0	27·7	285
9·0 ,,					8	25 5	24 3	286	3	21·7	19 4	296	23	36 1	33 9	277	10	30·5	29·1	284	24	34·1	31·9	280

Station	GAUHATI				GAYA												GOA/DABOLIM							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·5	0·1	127	31	1 0	0 7	222	31	2 7	2 3	320	31	0 6	0 3	206								
0·15 a. g.	31	2·3	0·8	187	31	4 5	3 1	266	31	4 8	4·2	308	31	5·2	2 8	316								
0·3 a. m. s. l.	31	2.4	0.3	090	31	4·6	3 0	283	31	5 0	4 5	307	31	5·5	3·2	316								
0·6 ,,	31	3 1	0 8	084	31	5 0	3 7	304	31	5.6	5 1	297	31	5 8	4·3	306								
0·9 ,,	31	2·7	1 0	245	31	5·7	4 5	300	31	6 0	5 5	295	31	6·4	5 2	292								
1·5 ,,	31	3 5	1·1	271	31	8 0	6·9	301	31	9·0	8·1	292	31	8·0	6 7	285								
2.1 ,,	29	3·6	0·7	200	30	10 9	9·6	300	31	10 5	9 7	295	31	9·8	8 6	292								
3·0 ,,	29	7 5	4·2	272	28	13·7	12 7	302	31	12 4	11 6	300	24	10·0	8 7	286								
3·6 ,,	17	13·3	10 6	261	25	15 4	14 2	299	30	13·8	13 0	295	5	15·0	11·6	273								
4·5 ,,	3	16·7	16 5	264	20	15 4	13·3	299	27	14·7	14·1	290												
5·4 ,,	1	12.0	12.0	270	10	12·7	12·5	289	23	17.2	16.3	284												
6·0 ,,					7	11·7	11·0	285	17	16.0	14.8	285												
7.2 ,,					4	15·0	13·4	291	7	14·0	12·4	306												
9·0 ,,																								

(P. B. Observations to commence from July 1965)

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 0 km above mean sea level

January, 1965 (Pausa 11—Magha 11, 1886 Saka)

Station	GOA/DABOLIM	GOPALPUR												GORAKHPUR							
Time in I.S.T.	2330	0530				1730				2330				0530				1730			
Ht. in Km.	n V v D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	(P. B. Observations	31	1 1	1 0	330	31	2 0	1·6	119	31	0 6	0·2	289	31	0 7	0·4	305	31	0 7	0·5	271
0·15 a. g.	to commence from	31	3 7	3·1	337	31	4 3	3 0	088	31	2 8	0 9	184	31	4 6	3·4	304	31	3 3	2·2	285
0·3 a. m. s. l.	July 1965)	31	2 7	1 4	353	31	4 1	3·4	109	31	3 0	1 3	154	31	5 2	3 4	304	31	3·9	2 8	280
0·6 „		31	2·5	1 3	028	31	3 2	2·0	072	31	2 8	1 5	109	31	6 4	4 2	300	31	5·2	3 9	278
0·9 „		31	3 5	2 3	024	31	3 2	2 3	358	31	3 2	1 6	048	31	7·5	4·9	297	31	6 2	4 8	283
1·5 „		31	5·0	4 0	015	31	5 4	4 3	338	30	5 0	3 9	009	31	9·0	6 6	297	31	8 9	6 9	295
2·1 „		30	5·9	3 7	007	31	6·1	4·6	331	29	6 0	4 4	348	31	10 7	8 8	295	31	10 9	9 3	297
3·0 „		28	5 9	4 0	303	30	6 6	5·2	313	18	6 8	2·3	351	25	13 0	10·9	301	24	12·2	10·2	299
3·6 „		26	6 7	4 9	293	26	7 8	5 2	300	2	7 5	6 7	268	18	13 4	12 4	300	21	13 4	11 9	292
4·5 „		23	9·3	6 6	279	25	8 6	6 7	290					9	14 1	13 1	295	14	14 6	14 1	290
5·4 „		18	10 8	8 6	287	23	10 7	10 0	284					3	15 7	15 1	308	9	16 1	15 4	287
6·0 „		17	12 9	11 3	283	21	13 5	11·9	280					2	12 5	11 9	300	6	17 2	16 0	293
7·2 „		6	15 0	12 8	257	11	17 1	16 1	267					2	16·0	14 2	295	2	12 5	11 7	304
9·0 „						2	19·5	19·3	255												

Station	GWALIOR												IMPHAL/TULIHAL							
Time in I.S.T.	0530				1130				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·5	0·1	270	31	1 2	0·8	344	31	1·4	1·0	345	30	0·3	0·3	235	31	0 3	0 3	045	31	0·7	0·5	252
0·15 a.g.	29	4 5	2 5	355	30	2·5	1·5	330	31	3 6	2·7	357	30	4 2	1·8	024	30	1 5	0·7	045	31	1·7	0 8	243
0·3 a. m. s. l.	29	3.6	1 7	332	30	2 2	1 4	330	31	3 1	2.4	360	30	3 3	1·2	030								
0·6 „	29	5 3	3·8	352	30	3 4	2 1	332	31	4·1	2·8	345	30	4·5	2·3	355								
0·9 „	29	5·4	4 3	342	30	4 8	3·0	326	31	5·0	3·4	333	30	5·0	3 3	330	30	1·5	1 0	040	31	1·7	0 8	237
1·5 „	29	6 4	5 7	311	30	6 7	5 1	308	31	6·3	4·7	313	30	5 8	4 6	303	30	2 5	0 7	347	31	2·8	1·2	203
2·1 „	29	8·7	7·0	301	29	8 1	6·6	297	31	7·7	6·5	298	30	8·0	6 3	295	30	4 7	2·3	258	31	4·3	2·5	249
3·0 „	27	10·9	9 4	295	27	10 7	9 2	289	31	10 2	8 6	286	26	9 0	7 7	287	26	9·8	8 5	279	30	9·7	8 3	278
3·6 „	26	11 3	9 9	287	27	11·5	10 0	285	29	12 0	10 4	285	2	8·5	7·7	315	20	15·5	14·7	286	28	15·0	13·6	283
4·5 „	23	12·7	11·8	284	26	13·7	12 3	279	24	14 0	13 0	290					10	16.9	16 1	289	17	19·0	17 8	277
5.4 „	21	16·1	15 0	282	24	16 7	15 5	277	22	15 0	14 2	284					4	14·5	13 1	295	8	16 4	15·6	275
6·0 „	15	16 6	15·8	282	24	19 2	18·0	273	20	16·7	16 0	282					2	13 0	12·3	268	3	13 0	12·9	300
7·2 „	9	19 6	19·2	288	15	22.9	21.6	275	14	21 0	20 1	273									2	18 5	17 9	288
9·0 „	2	25.5	25 5	285	4	33.0	33.0	261	5	28·0	24·8	276									1	35·0	35 0	279

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 0 km. above mean sea level

January, 1965 (Pausa 11—Magha 11, 1886 Saka)

Station	IMPHAL/TULIHAL								JABALPUR												JAGDALPUR			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1 7	1·3	271	31	0·9	0 3	336	31	0 2	0·2	132	31	1 2	0·9	006	31	CALM			31	CALM		
0·15 a. g.	31	3·3	2·2	256	31	2·0	0·4	302	31	4 2	2 7	088	31	3 1	2·2	003	31	5·1	3 8	125	28	2·7	1·7	071
0·3 a. m s. l.																								
0·6 „									31	4 8	2 8	081	31	3 3	2·4	005	31	5 5	4 3	051	28	1·4	0·9	070
0·9 „	31	3 3	2·1	249	31	2·0	0·5	337	31	5 0	1·8	047	31	3·3	2 2	353	31	4·8	2·9	048	28	4·1	2 5	076
1·5 „	31	3·0	2 2	248	31	3 0	1·7	245	31	5 4	2 8	326	31	4 6	3 1	323	31	4·2	2 1	322	28	4·8	2·4	027
2·1 „	31	4 3	3·6	253	31	4·1	3 6	257	30	7·5	5 7	317	31	6·6	4 5	307	31	6 8	4·5	297	26	5·4	2·9	003
3·0 „	31	10 3	8·6	274	21	9·5	8 7	275	27	9 3	7 5	301	27	9 3	7 5	300	30	9·2	7 0	301	24	5.0	2·7	343
3·6 „	26	14 5	13·1	276	8	10 0	9 1	288	25	9 0	7 5	298	28	9 6	7 9	292	19	10 2	8 1	279	22	5·8	3·6	314
4·5 „	19	15 4	14 1	279	1	19 0	19 0	280	25	12 4	10 5	287	25	11 3	10 0	292	8	10·1	9·1	269	21	7 6	4.8	294
5·4 „	12	16 7	15 8	275					23	15·9	14·2	280	23	14 3	12 9	280	3	10.3	10·0	278	19	8·4	6·7	284
6·0 „	4	19 0	18 7	282					21	17·6	15·6	275	23	15 9	14·5	279	1	15·0	15·0	270	19	10 0	7·7	282
7·2 „	2	17·5	17 3	291					10	18·2	16·6	272	17	19·0	17 5	276					16	13 9	11 7	286
9·0 „	1	23·0	23·0	285					1	17·0	17·0	270	2	23 5	23 5	270					7	18 0	16·2	269

Station	JAGDALPUR								JAIPUR/SANGANER												JAMSHEDPUR			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·9	0·5	019	31	0·4	0 3	045	31	0 6	0 5	077	31	1·6	0·4	314	31	1·7	1·0	048	31	0·4	0·3	303
0·15 a. g.	30	3·1	1 9	037	31	5·6	4·9	056	31	4 7	2 0	057	30	3.2	0·9	331	31	6·2	3·3	059	31	2·5	1·8	316
0·3 a. m s. l.																					31	2·5	1·4	331
0·6 „	30	2 2	1·2	036	31	4·0	3 4	058	31	5.2	1·9	061	30	3·5	1 0	330	31	6·5	3·1	065	31	3·6	1·8	343
0·9 „	30	3·0	2·0	031	31	5·7	4·8	055	31	5·0	0·7	007	30	3·7	1·2	331	31	5·4	1 6	050	31	4·6	2·4	334
1·5 „	30	2·9	2·0	021	31	4·4	2·5	040	31	5·1	2·4	313	30	4·7	2·7	327	31	4·5	1·9	268	30	5·7	4·3	305
2·1 „	28	3 7	2 3	004	29	3 4	1 1	003	31	6 7	4 4	300	30	6·3	4 6	308	31	6·4	4·6	274	30	8·2	7·5	309
3·0 „	25	4·7	3 3	355	24	5 0	3·0	001	30	8·7	7 6	248	29	10·0	8·2	289	28	8·6	7 1	280	28	10·7	9·9	308
3·6 „	22	5·0	4·4	326	15	5·6	4·1	349	29	10 7	9·5	283	28	11·7	9·3	283	15	9·3	7·9	285	22	10·8	10·1	302
4·5 „	22	8 5	5·8	305	7	6·4	5·1	306	27	13·9	12·7	279	27	14·1	12·6	279	1	19·0	19·0	278	16	12 2	11·1	291
5·4 „	21	11·1	8·2	301	4	7·0	6.4	263	22	16.2	15·5	276	23	14 5	13 8	277					7	12·5	11·6	269
6·0 „	20	12·7	10 2	293	3	8 3	7·8	262	20	19·7	18·1	274	22	17 8	17·3	274					2	11·5	9·3	298
7·2 „	17	14·2	11 6	284					13	20·9	19·5	268	13	20·8	20·4	272								
9·0 „	9	19·2	17·0	299					1	25·0	25 0	260	2	20·0	20·0	277								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 0 km. above mean sea level

January, 1965 (Pausa 11—Magha 11, 1886 Saka)

Station	JAMSHEDPUR				JHARSUGUDA									JODHPUR							
Time in I. S. T.	1730				0530				1730				2330	0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n V v D	n	V	v	D	n	V	v	D
Surface	31	1 0	0·7	308	31	1 3	1·1	031	31	0 7	0 2	253	31 0 7 0 2 313	31	2·1	1·7	038	31	2·1	1·1	076
0·15 a. g.	31	2 1	1·3	322	28	3 5	3 3	038	31	2·5	0 8	313	31 3 8 0 4 351	30	7 3	4 4	074	30	4·1	2 5	083
0 3 a. m. s. l.	31	2 2	1 3	315	28	3 5	3 1	037	31	2 4	0·7	311	31 3 1 0·7 018	30	7 4	4 9	070	30	2 9	2 6	072
0·6 ,,	31	2·7	1 6	312	28	4 1	3 0	041	31	2·4	1 4	293	31 3 9 1·0 332	30	6·5	3 1	099	30	4 1	2·2	105
0·9 ,,	31	3·4	2·3	317	28	4·1	2 4	021	31	2 7	1 7	296	31 3·7 1·9 328	30	5 8	1 7	118	29	4 1	1 1	086
1·5 ,,	31	5·3	4 3	308	27	4·8	4 0	332	30	4·2	3 4	322	30 4 9 3 0 332	30	5 2	1·1	234	29	4 6	0 6	349
2·1 ,,	30	8·2	7 3	307	27	7 0	6 3	335	29	6 6	5 8	326	30 6 1 4 2 330	30	6·0	4 2	281	29	5 3	2 1	273
3·0 ,,	27	10 5	10 0	300	27	8 1	7 4	316	27	8·4	5 7	266	27 7 5 6 6 303	29	7 9	6 3	282	29	7·6	6 4	266
3·6 ,,	23	12·5	11·7	296	25	8 0	7 2	313	26	9·6	8 7	303	2 10 0 9·5 290	27	10 3	8 7	270	29	9·6	9 2	265
4·5 ,,	21	14·5	13 1	286	24	10 3	9 4	299	24	12·0	11 1	292		27	12·8	12 1	263	28	13 6	11 8	274
5·4 ,,	11	15·2	14 1	274	23	13·5	11 6	286	22	14 6	13 1	289		26	18 3	17 4	262	27	17·3	16·6	265
6·0 ,,	8	16·7	15 9	270	20	15 3	13 1	285	21	17 2	15 6	278		26	20 7	18 0	266	26	19 6	17 4	264
7·2 ,,	1	15·0	15 0	270	8	20·0	18 1	276	8	19 0	17 5	278		25	25·6	23·9	260	21	24·2	23 6	267
9·0 ,,									2	27 5	27 5	297		12	23 7	23·2	260	18	29 7	27 8	242

Station	JODHPUR								LUCKNOW/AMAUSI										MADRAS/ MINAMBAKKAM			
Time in I. S. T.	1730*				2330				0530				1730				2330		0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·3	0 8	062	31	2 3	1 3	041	31	1 3	0 7	276	31	2 4	1 9	297	31	1 2	0·8	278	31	3·1	2·7	037
0·15 a. g.	31	4·7	3·1	020	31	7 0	5 9	064	31	6·0	3 7	328	31	4·9	4 0	300	31	6·9	4 7	310	31	5·7	5·1	051
0·3 a. m. s. l.	31	4 6	3 1	022	31	6 5	3 9	051	31	6 0	3·8	326	31	5 0	3 9	301	31	6·9	4·9	30 8	31	5 4	4·9	058
0·6 ,,	31	4 1	1·9	030	31	6·9	2·7	076	31	7·0	5 0	307	31	5 8	4 7	298	31	6 9	5 4	306	31	5·2	4 9	070
0·9 ,,	31	3·7	1·0	035	31	6 0	2·2	099	31	8·2	6·3	308	31	6·4	5 6	297	31	6·9	5·7	305	31	6 4	6·0	073
1·5 ,,	31	3·7	0·6	307	31	5·0	1·1	167	30	9 3	7·7	307	29	8 4	7 5	307	29	7 6	6·2	301	31	7 2	6 6	068
2·1 ,,	31	5·6	3 2	267	30	5·7	2 5	194	29	11·1	8 3	301	29	10 9	9 4	305	27	9 6	7 2	300	31	6 4	5·9	068
3·0 ,,	31	8·3	6·9	267	30	8 0	6·0	269	20	12·5	10 6	288	29	12 8	11·4	297	12	8·8	7·3	286	31	5·0	3·4	070
3·6 ,,	31	10 3	9·1	265	17	8 9	6·2	286	17	14·4	12·2	283	26	13 5	12·5	292	8	11·6	9·7	282	31	5·2	1·6	060
4·5 ,,	31	13 8	12·7	259	4	9·5	8 1	228	12	15·8	14 7	287	23	15·2	13·9	285					31	6 1	0·3	090
5·4 ,,	29	17·1	16 0	257					6	18·0	17·6	287	18	16·5	15·1	280					31	6 7	1·5	269
6·0 ,,	27	18·6	17 9	255					5	21·6	18·2	283	13	15·8	14·6	286					31	6·5	2·8	256
7·2 ,,	26	23 8	22 7	250					2	15·0	14·7	275	7	16·3	14·4	277					31	8·8	6·1	248
9·0 ,,	19	28 0	27·4	258									1	15·0	15·0	295					31	13·9	10·5	251

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

January, 1965 (Pausa 11—Magha 11, 1886 Saka)

Station	MADRAS/MINAMBAKKAM												MANGALORE/BAJPE											
Time in I. S. T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	3 4	3 0	058	31	4·5	4 2	052	31	2·4	1·9	048	31	1·9	1·8	088	31	3·6	2·7	279	31	0·7	0·4	002
0·15 a. g.	31	5·0	4·5	062	31	6·7	6 3	057	31	6 1	5·8	055	31	6 9	6 0	095	31	5 2	4 3	282	31	4 0	3·4	330
0·3 a. m. s. l.	31	5 6	5 3	064	31	6 4	5 8	058	31	6 5	6·2	059	31	7 7	7·0	094	31	5 1	4 2	284	31	4 2	3·4	329
0·6 ,,	31	5·6	5·5	061	31	6 3	6 0	060	31	7 2	7 0	061	31	7 5	6 8	095	31	3 3	1 1	329	31	3 9	2·6	346
0·9 ,,	31	5 7	5 5	059	31	6 3	6 0	060	31	7 6	7 4	063	31	6 1	5·1	095	31	3 2	2 2	085	31	4 1	2 0	047
1·5 ,,	24	7·3	7·0	061	31	7.1	6·6	066	31	7 4	6 9	063	31	5 9	4 1	097	31	6 4	6 2	089	31	6 8	6·5	090
2·1 ,,	21	8·2	7 4	062	31	5·8	5·2	067	30	6 6	6·1	058	31	5 8	4 4	086	31	8 5	8 1	083	31	7 4	7 1	094
3·0 ,,	11	5·7	4·7	081	31	5 2	3·2	070	27	5 9	5·0	066	31	4 9	2·7	072	31	6 0	4·1	075	30	5 1	2·6	055
3·6 ,,	9	5·4	3·6	071	31	4·8	1 4	068	19	5 6	3 1	071	31	5 2	1·7	074	30	5 8	1 6	067	24	4 8	0·4	083
4·5 ,,	6	6 5	2 3	086	31	5 6	0 4	045	10	6 8	3 6	055	30	6 5	1·9	102	29	7 0	1 6	086	12	5 9	0 7	030
5·4 ,,	6	4 3	1·0	271	31	6 3	1·5	285	4	7 5	3 9	256	30	7·8	0·4	147	26	7·7	1·7	239	9	6 7	1 4	293
6·0 ,,	5	3·2	1·5	181	31	6 9	3·2	270	3	13 0	6 5	259	28	7 9	1 2	248	26	8 0	3 2	249	5	6 8	5 2	244
7·2 ,,	5	6·4	3 2	262	31	8·3	5·6	250					17	7 5	5·2	255	20	8·3	6·3	248	1	2 0	2 0	175
9·0 ,,	1	8·0	8 0	290	31	14·0	11·6	250					14	8 7	6·4	237	16	12.0	9 6	254				

Station	MINICOY												NAGPUR/SONEGAON							
Time in I. S. T.	0530				1130				1730*				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	0·7	0 5	046	31	2·4	1·8	057	31	2 4	1·7	041	31	1 7	1 4	068	31	1 7	1·1	031	31	1 5	1 3	064
0·15 a. g.	31	3 2	2 3	045	31	4.7	3 8	045	31	3 4	2 6	041	31	3 7	3 1	059	31	3 7	3·0	056	31	3 0	2 7	060
0·3 a. m. s. l.	31	3·1	2·5	050	31	4 5	3·7	046	31	3·6	2·9	049	31	3·8	3 2	057								
0·6 ,,	31	4·1	3 4	061	31	4·6	3 9	055	31	3 8	3·3	056	31	3·8	3 3	061	31	3·4	2 7	071	31	3 3	2·7	078
0·9 ,,	31	4 9	4·3	079	31	4·9	4·3	072	31	4 0	3 5	065	31	4 3	3 7	070	31	3 5	2 1	095	28	3 2	1·7	104
1·5 ,,	30	5·4	4·6	084	31	5·2	4 2	089	31	4·3	3·0	081	31	4·8	3·5	084	31	4 5	1·2	026	26	4·4	1 5	022
2·1 ,,	30	5·0	3 1	088	30	5·1	2 9	094	31	4 7	2·3	077	31	5 2	3 1	075	31	5 5	2·4	328	25	5·8	3 8	003
3·0 ,,	28	5·6	2 4	081	30	6·2	2·5	085	31	5·4	2·6	066	31	5 5	3 2	087	31	6.7	3·8	312	25	5 3	3 5	343
3.6 ,,	28	5 5	2 3	095	28	6 1	2·7	084	31	5 5	3 1	082	14	4 5	0 8	088	31	7·0	4 3	301	25	5 6	3·8	315
4·5 ,,	28	6 5	3 0	104	26	6·4	3 7	107	31	5 5	3 0	095	4	5 5	1 6	260	31	11·7	7 5	288	24	8 3	6 5	290
5·4 ,,	26	6 8	2 2	110	23	6·7	2·9	108	31	6·0	2 4	078	1	10 0	10 0	360	31	12·6	10·8	273	24	11 7	9 8	278
6·0 ,,	26	5 9	0 3	308	21	6·3	1·0	083	31	5·9	0·9	041	1	11 0	11 0	345	31	13·7	12 3	271	23	13 5	11·8	278
7·2 ,,	22	8·6	6 4	252	17	7·9	4·7	247	31	6 8	2·9	233					31	15·7	14·3	274	20	16 2	10 5	273
9·0 ,,	14	14·8	12 3	240	13	14·3	10·2	245	31	10 4	5·0	241					31	20·5	18·7	267	19	23 9	21 9	266

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 0 km. above mean sea level

January, 1965 (Pausa 11— Magha 11, 1886 Saka)

Station	NAGPUR/SONEGAON								NEW DELHI/SAFDARJUNG															
Time in I.S.T.	1730*				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1 2	0·9	075	31	1·2	0·9	084	31	1·9	1 6	319	31	3·5	2·6	308	31	3 4	2 5	312	31	1·7	1 5	305
0·15 a. g.	30	2 3	2 0	065	31	4 5	4 0	104	31	7·1	5 5	326	30	5 0	3 3	309	30	6 1	4 7	309	31	7·2	5 9	318
0·3 a. m. s. l.									31	5 4	3 9	329	30	4 3	2 9	306	30	4 4	3·3	313	31	6 3	4 8	317
0·6 „	30	2 3	1 7	073	31	4 3	3 6	110	31	7 5	5·6	326	30	5·9	4·1	308	30	6·5	4 9	313	31	8 0	6·9	318
0·9 „	30	2·3	1 0	080	31	3 7	2·1	102	31	7 8	6 3	321	30	7·2	5 6	306	30	7·2	5 9	311	31	7 9	6·6	317
1 5 „	30	3·2	0·9	350	31	4 0	1 6	004	31	8 8	7 7	308	30	8·8	7·5	303	30	8·6	6 8	310	30	8·8	7·7	305
2 1 „	30	4 9	2·6	332	30	5 8	2·7	337	31	9 1	7 9	303	30	9·2	8 1	298	30	8·8	7 1	303	25	8·1	6·8	295
3·0 „	30	7 0	3·7	305	30	6 1	3·4	291	31	9 0	8 1	295	30	9·7	8 6	287	30	9 8	8 7	295	18	8 1	6 7	291
3·6 „	30	7 2	4 4	289	22	5 7	4 3	303	31	8 7	7 9	281	26	10 4	9 1	281	30	10 3	9 1	291	2	9 0	8·0	297
4 5 „	30	8 9	7 1	284	8	8·1	7 1	280	31	12 2	11 4	279	25	13 1	11 6	279	30	12·7	11 0	281				
5·4 „	30	11·8	10 3	277	6	9 5	8 6	277	31	15 9	15 0	273	25	16 8	15 5	277	30	17·7	16 4	275				
6·0 „	30	13·2	11·8	274	1	11 0	11·0	300	31	19·0	18 3	273	25	20 0	18 4	276	30	20 1	19·1	273				
7·2 „	29	15·5	14·0	271					31	25 6	24 4	269	22	24·0	22 8	270	30	25·5	24 2	268				
9 0 „	29	20·4	19·0	265					31	32 9	31 2	268	7	31.1	29 1	270	28	29 8	28 4	269				

Station	POONA												PORT BLAIR											
Time in I. S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0 1	0·1	090	31	1 0	0 1	203	31	0 3	0·2	090	31	2 8	2 5	057	31	3 5	3 3	057	31	3·2	2 8	048
0·15 a. g.	31	3 3	1 7	096	31	4·2	1·8	091	31	4·7	1 6	061	31	6 0	4 9	049	31	6·2	5·5	056	31	6 4	5·7	053
0·3 a. m. s. l.													31	6·0	5·2	052	31	6·5	6 0	057	31	6 4	5 8	054
0·6 „	31	1 5	0 5	188	31	2·6	1 2	085	31	2·2	0·4	165	31	6 5	5 8	061	31	6·6	5·8	064	31	6·3	5 8	056
0·9 „	31	5 0	3 7	098	31	4.1	2 0	095	31	5 4	2 5	054	31	6 3	5 6	067	31	6·4	5·3	067	31	6·3	5·7	062
1·5 „	31	6 9	5 4	113	31	4·3	2·3	086	31	6·3	4·9	094	31	6·2	4·6	084	28	6·1	4·3	078	31	5·3	4·2	078
2·1 „	31	6·5	3·4	117	31	4·8	2 3	099	31	8·8	4·6	103	31	5·8	3·1	086	23	5·5	2·6	083	31	4·7	2·5	065
3·0 „	31	5·8	0 7	291	30	5·1	1 0	121	30	6·3	2·7	113	31	5 6	1·3	098	19	6·3	2·5	087	31	5 0	0·8	077
3·6 „	29	5·6	2 0	254	28	5·9	1 5	252	26	5·5	1 0	228	31	5 7	1 2	050	18	5 4	2·6	064	31	5 4	1 9	055
4·5 „	15	5·8	2 8	280	27	7·1	4·1	267	13	4·3	3·2	293	31	5 2	2·2	035	17	5 9	3 2	073	31	5·7	2 2	062
5·4 „	9	5·3	4·4	249	23	7 7	5 8	269	5	6 0	5 7	284	31	4·7	1 3	052	16	5 4	2 3	094	31	5 3	1 5	050
6·0 „	4	7 7	7 6	251	23	9·1	7·4	269	1	4·0	4 0	266	31	5 1	0·4	048	16	5 1	1 5	255	31	5·5	0·8	143
7·2 „					19	11·2	9 3	271					31	6 5	1·5	268	13	7 1	2 8	120	31	6 8	1 0	254
9·0 „					12	21·0	19·4	265					30	8·6	4 7	227	11	10 5	7·0	201	30	9·0	5·5	225

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

January, 1965 (Pausa 11— Magha 11, 1886 Saka)

Station	PORTBLAIR				RAIPUR												RAXAUL							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3 3	2·9	055	31	0.7	0 5	046	31	1 2	0 8	017	31	1 1	0 4	089	31	0 8	0 2	025	31	1·6	1 4	259
0·15 a. g.	31	6 0	5 5	054	26	3 5	2·7	054	31	2·3	1 6	018	31	3 3	1 7	075	24	3 4	0 9	326	31	4 0	3·4	256
0·3 a. m s l.	31	6 2	5·7	056													24	3 5	1 2	314	31	4 0	3·4	257
0 6 ,,	31	6 3	5 8	061	26	3 6	2 9	069	31	2·3	1 5	025	31	3 3	1 5	070	24	3 5	1 7	299	31	4 3	3·5	258
0·9 ,,	31	6 4	5 6	070	26	3·2	2 1	052	31	2 2	1 0	014	31	3 0	0 6	058	24	4 3	1 5	301	31	4 2	3·0	272
1 5 ,,	31	5 3	3 8	069	26	4·3	3 1	008	29	3 8	2·3	348	30	3 8	2 3	341	24	6 7	2 1	292	31	5 7	2 3	290
2·1 ,,	29	4·0	1·9	067	26	5 8	4·7	343	27	5 6	4 6	345	29	6 1	3·9	342	22	8 0	2·3	292	30	8 3	4·4	300
3·0 ,,	21	4 3	1 1	005	26	6 9	5 5	322	25	5 7	4 4	325	29	6 5	4 5	302	15	10 3	5 4	278	18	11 3	9 5	294
3·6 ,,	13	5 1	2 8	060	25	6·8	5·8	317	25	6 9	5 7	310	26	7 8	6 3	295	7	10 4	7 9	297	8	13 7	13·1	288
4·5 ,,	9	6 9	3·3	088	25	9 7	8 8	288	24	10 4	8 6	291	13	8 7	7 1	281	1	11 0	11 0	290	4	14 5	13.6	279
5·4 ,,	1	8 0	8 0	030	24	12 8	10 7	278	24	14 4	12 6	281	5	8 7	7.1	281					2	19 5	19·5	264
6·0 ,,	1	9 0	9 0	018	23	14 3	12 4	276	23	15·5	14 0	280												
7·2 ,,					20	16 8	15 2	268	21	18 7	16 9	276												
9·0 ,,					12	20·0	19 2	275	15	25 9	24 4	267												

Station	SILIGURI BAGHDOGRA												SRINAGAR								TIRUCHCHRAP-PALLI			
Time in I.S.T.	0530				1730				2330				0530*				1730*				0530			
Ht in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·1	0 7	025	31	2·2	1 4	230	31	1 0	1 0	027	15	0 4	0 4	165	17	0 4	0 0	034	31	3 1	2 9	015
0 15 a. g.	30	3·2	2 9	064	31	2 9	1 9	223	31	1·9	0 8	020	15	1 5	0·9	141	17	1·4	0 6	140	31	7 3	7·1	025
0·3 a. m s l.	30	3 4	2·3	065	31	3 0	2 0	222	31	1 9	0·6	350									31	7 5	7 4	035
0·6 ,,	30	3 3	3 2	080	31	3·0	1 9	281	31	2 3	1.0	280									31	8 3	8 0	049
0·9 ,,	30	2 9	2 0	084	31	2·9	1 3	230	31	2 2	1 0	284									31	8 2	8 0	056
1·5 ,,	30	3·2	1 1	077	31	2.9	0 3	283	31	2·9	0 5	138									29	6 7	6 3	064
2·1 ,,	30	4·3	0·3	139	29	3·4	0 8	355	30	4 0	0 3	309	15	0·9	0 6	136	17	1·7	0 9	170	27	6 0	5 3	068
3·0 ,,	26	10 7	8 3	283	22	8 4	6 9	290	23	8 7	6 3	276	15	2·5	1 9	138	17	3 6	3 3	156	25	6 3	4·2	069
3 6 ,,	18	13 8	12 7	282	20	13 1	12 7	279	5	12 2	12 0	280	15	5·9	5·3	147	16	7 1	7.0	155	25	6·0	3 2	077
4·5 ,,	9	14 5	13 5	293	10	14·7	14 2	284					15	6·6	6 1	192	16	6 6	6 1	174	22	6·5	2 8	089
5·4 ,,	6	18 8	13 0	288	6	16 6	15 6	286					15	9·6	7 7	239	16	9 1	7·8	212	21	6·6	1·8	080
6·0 ,,	2	18·5	18 5	298	6	16 6	13 7	283					15	12·3	10 3	255	16	11 1	9 2	239	20	6·9	1·1	013
7 2 ,,	2	24 5	24 4	307	2	16 0	15 8	321					15	16.7	14 6	257	15	17 5	15 0	252	17	6.8	3·2	250
9·0 ,,													14	24.0	22 0	263	14	22 8	19.9	260	13	10·0	4·6	256

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 0 km above mean sea level

January, 1965 (Pausa 11—Magha 11, 1886 Saka)

Station	TIRUCHCHIRAPPALLI								TRIVANDRUM															
Time in I. S. T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4 6	4·2	069	31	3 7	3 5	054	31	1 5	1 2	039	31	0·8	0 3	086	31	2·1	1 7	247	31	0 9	0·4	348
0·15 a. g.	31	6 4	6 3	067	31	8 2	8 0	059	31	2 9	1·9	035	31	2·4	0 9	056	31	3 8	3 1	252	31	3 2	0 8	331
0 3 a. m. s. l.	31	6 5	6 4	066	31	9 0	8 8	060	31	2 8	1 8	043	31	2 4	1 1	045	31	3 3	2 6	255	31	3 0	0 6	333
0·6 "	31	7 0	6 9	060	31	9·8	9 6	059	31	1 9	1 1	074	31	2 2	1 4	059	31	2 6	1·1	318	31	3 0	1 0	026
0·9 "	31	7·4	7·2	055	31	9 0	8 8	052	31	3 1	1 9	085	31	2·5	1·6	050	31	3 6	2 9	318	31	3 5	2 6	062
1·5 "	31	6 9	6 8	046	31	6 8	6 5	041	31	3 1	1 6	060	28	2·7	1·4	045	31	5 9	5 6	053	30	4 2	3 9	070
2·1 "	30	5·8	5 5	053	30	6 6	5·4	060	31	4·2	0 7	041	27	4 0	1·8	061	31	5 0	3·5	054	28	5·2	3·7	068
3·0 "	25	5·9	3·8	056	30	5 9	3·9	068	31	4·9	1 6	059	25	6 3	3.3	083	31	6 1	2 4	071	24	4 8	2 0	086
3 6 "	23	5 8	2 9	075	27	6 1	2 9	073	31	6 0	2 4	081	22	6 3	4 2	086	31	6 5	2 9	092	19	4 7	2 1	118
4·5 "	17	6 3	5 4	094	19	6 4	2 8	082	31	7 0	3 9	099	22	8·1	5 5	086	31	6·7	3 9	092	10	7 1	4 3	102
5 4 "	15	5 9	3 7	076	9	8 9	3 4	072	31	7 3	3 8	090	19	7 7	3 9	076	30	7 9	4 2	087	6	7 8	4·1	070
6·0 "	11	4 0	0 6	111	1	3 0	3 0	285	31	6 8	1 7	051	19	7 7	2 8	038	30	7 2	1 9	063	4	6 5	2 4	095
7·2 "	9	7·0	2·5	190					31	8 0	2.1	202	18	7·8	2 0	269	31	7 6	2 1	226				
9·0 "	5	9·2	4·0	211					31	12 0	5 4	222	16	11 5	5 5	238	31	11 1	5·1	229				

Station	UDAIPUR												VENGURLA											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	—	CALM		31	0 3	0 3	065	31	0·2	0 1	019	31	1 0	0·7	028	31	2·3	1·9	263	31	1·0	1·0	360
0·15 a g.	30	2 1	0 9	042	31	2 5	0·9	059	30	2 8	0 2	036	31	4 5	3 3	047	31	4 3	3 3	264	31	5 1	4 0	008
0·3 a. m. s. l.													31	4 8	3·1	059	31	4 4	2 8	259	31	5 1	3·7	006
0·6 "													31	5·0	3·1	087	31	3·6	0 8	131	31	5·1	2 8	035
0·9 "	30	3 3	1·7	069	31	2·7	0 9	061	30	3 4	1 8	055	31	5.4	8 7	100	31	3·9	1 8	096	31	5·6	3 4	061
1·5 "	30	4·5	0 5	068	31	3·3	1 0	299	30	3·4	0 3	095	31	7·1	5 3	108	30	6 6	5·6	080	31	7·3	6 0	094
2·1 "	30	5·0	3 0	278	31	4·7	2 7	275	30	4·3	1·9	242	29	6 6	4 9	092	30	8 5	7 1	079	31	7·4	5 9	095
3·0 "	30	7 5	5·6	270	29	7·1	5 2	270	30	6 8	4 5	274	28	4·8	1 2	068	30	6·9	3·6	074	28	5 6	3 2	078
3·6 "	30	8·9	6·7	270	29	9 4	6 8	267	25	9 4	7 2	272	6	4 8	2 5	006	30	6 1	1·4	054	11	4·7	1·5	021
4·5 "	30	12·2	10.5	270	27	11 3	9 2	275	13	10 8	9 6	271					28	6·6	1·7	268	1	7 0	7·0	310
5·4 "	30	15·4	14·7	282	27	13 6	12·1	271	2	7 0	5·5	264					27	7·1	3·1	271				
6·0 "	29	17 3	16·2	275	26	15·1	13·4	270									27	8 7	5·1	269				
7·2 "	24	20·7	19·7	265	20	17·7	16·7	272									23	10·5	8·3	258				
9·0 "	16	21·0	20 3	266	9	18·8	18·4	274									9	20·1	18·4	265				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 Km above mean sea level

January, 1965 (Pausa 11—Magha 11, 1886 Saka)

Station	VERAVAL												VIJAYAWADA/GANNAVARAM											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	V	D
Surface . .	31	3 5	3 2	027	31	4 4	3 2	271	31	2 6	2 1	353	31	2 6	2 3	058	31	3 1	2·5	113	31	1·7	1·4	123
0.15 a. g.	31	8 6	8 1	026	31	4 9	2 0	250	31	6 4	4 6	357	31	4 1	3 6	087	31	3 8	3 6	119	31	5 5	5 1	131
0 3 a. m s l	31	7 3	6 5	028	31	4 8	1 4	273	31	6 3	4 1	004	31	4 3	3·9	104	31	4·0	3 7	114	31	5 7	5 5	124
0 6 „	31	5 2	4 1	035	31	4 3	1 3	352	31	5 6	3 4	014	31	4 7	3 9	104	31	4 0	3 4	103	31	5 4	5·1	110
0 9 „ .	31	4·5	2 8	047	31	3 8	2·2	023	31	5 1	2 6	039	31	5 4	4·4	091	31	4 0	3·3	077	31	5·0	4 3	084
1 5 „ .	31	4 5	1 3	123	31	4 5	1·4	085	31	4 7	2 4	070	31	5 6	4 6	063	31	5 5	4·1	050	31	5·6	4·5	050
2 1 „ .	31	6 1	1 5	174	30	5 8	0·6	256	30	5 2	1 2	081	31	5 4	3 7	064	30	5 3	4·3	041	31	5·3	3·6	050
3 0 „ .	31	6 8	1 6	225	30	6 7	2 9	268	30	6 1	1 0	167	30	5·4	1 8	034	28	4 9	2·4	017	30	4·3	1.8	035
3.6 „ .	2	4 0	3 2	297	29	7 2	4·3	266	14	6·9	2 7	258	30	6·0	1 0	329	28	5 4	1·6	345	29	5 4	0.8	328
4.5 „ .					29	9 9	8 2	271	10	7 9	6 8	261	29	7 0	2 8	280	28	6 8	2·9	306	28	7·3	3.0	299
5.4 „					29	12 8	11 4	262	3	12 0	11 8	268	28	9 0	5 7	277	26	8 2	4 8	295	26	8·8	5.3	269
6 0 „ .					29	14 3	12 8	263	3	12 7	12 6	264	27	10 0	7 8	263	26	8 6	6·0	276	22	10 7	7·0	249
7 2 „					22	18 1	16 7	251					25	11·5	9·8	262	22	10 4	8 8	262	8	14·2	13 0	239
9 0 „ .					18	24·4	23 4	263					21	15·9	14 7	262	16	17 6	15 7	265				

Station	VISHAKHAPATNAM																			
Time in I. S. T.	0530*				1130				1730*				2330							
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3.5	3 2	014	31	1 4	1 0	084	31	4 2	3 7	050	31	0 5	0 3	057				
0.15 a. g. .	31	5 8	5 6	019	31	3 5	2 8	083	31	6 2	5 7	051	31	2 7	1·7	088				
0.3 a. m. s. l. .	31	5 1	4 9	028	31	3·5	2 8	076	31	5·6	4·9	062	31	2 9	2 0	095				
0·6 „ .	31	4 0	3·5	056	31	3 6	3 1	056	31	4 9	3 1	083	31	3 1	2 0	097				
0.9 „ .	31	4 3	3·4	057	31	4·2	3·9	053	31	4 7	3·7	067	30	3·7	2 4	079				
1.5 „	31	5·9	4 6	044	31	5·5	4·7	041	31	6·2	5·1	018	27	4 6	3·7	028				
2.1 „ .	31	6 9	4 2	024	30	5 1	3 5	035	31	6 2	4·8	354	21	5 2	4 3	021				
3.0 „ .	31	6 3	2·5	353	23	5·8	1·9	011	31	5 7	3·5	341	20	4·7	2 5	025				
3.6 „ .	31	5·7	2·6	293	18	5 1	1·7	328	31	5·4	2 5	307	16	4·9	2·1	358				
4·5 „ .	30	8 1	4·5	284	15	6 5	3·6	280	30	7·1	3·7	304	4	4·7	3·5	329				
5.4 „ .	29	10 2	8 0	283	14	8 7	7·7	268	29	10·9	8·4	293	1	11·0	11 0	355				
6.0 „ .	29	12 2	9 9	275	13	11·1	9 9	267	29	12 2	9·6	280	1	10·0	10 0	345				
7.2 „	29	16 4	13·6	266	8	14·3	12 3	248	29	14·7	12 4	263								
9.0 „ .	29	24·4	21·4	255	7	17·4	16·0	256	29	21·3	19·7	264								

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km above mean sea level

January, 1965 (Pausa 11—Magha 11, 1886 Saka)

Ht. in Km.	n	V	v	D
	AGARTALA 1730 hr			
10·5	1	23 0	23 0	295
12·0	1	27 0	27 0	280
	AHMADABAD 0530 hr *			
10·5	25	28 2	26 8	265
12·0	24	33 3	32 0	262
14·1	13	37 6	36 2	258
16·2	7	37 0	36 0	259
	1130 hr.			
10·5	9	30 7	29·1	262
12 0	7	30 9	30·6	266
14·1	2	32 5	32 0	263
16·2	1	14 0	14 0	268
	1730 hr.*			
10·5	25	29 6	26 8	263
12·0	29	33 0	29·8	267
14·1	11	38 8	36 8	272
16 2	3	41 7	0 5	271
	ALLAHABAD/BAMHRAUL 0530 hr *			
10 5	23	34 8	31 3	269
12·0	22	39 3	36·9	263
14·1	6	41 8	40·0	266
16·2	3	34 3	33 7	252
	1730 hr *			
10·5	24	33·3	30 1	266
12·0	23	38 8	37 1	263
14·1	10	36 1	31 4	260
16·2	1	52 0	52 0	283
	ANANTAPU 0530 hr			
10 5	7	10 3	8 3	215
12·0	5	12 2	11·8	213
14·1	2	11 5	10 5	221
	BAHRAICH 1130 hr			
10·5	2	11·0	10·9	306
12 0	1	17 0	17·0	27
	1730 hr			
10·5	2	30 0	28 2	27
	BANGALORE 0530 hr @			
10 5	13	18 7	15 6	253
12.0	12	22·8	20 3	250
14 1	10	18·9	13 9	257
16 2	9	10 9	7 7	269
18·0	7	10 0	3·9	272
21·0	4	8 7	5 9	275
24·0	1	6·0	6 0	020

Ht in Km	n	V	v	D
	1130 hr			
10 5	6	16 2	14·0	257
12 0	6	20 0	15·5	269
14 1	5	17 4	13 4	270
16 2	5	8·4	8·0	249
18 0	4	11 0	9 6	273
21 0	3	6 7	3·9	344
	1730 hr @			
10·5	18	20 9	17 7	253
12 0	17	21 1	17·2	254
14 1	11	14 5	11 1	271
16·2	10	9 6	6 5	271
18 0	7	6·1	5 2	290
21 0	7	7 1	6 9	269
24 0	2	5·5	5 5	266
	BAREILLY 0530 hr.			
10·5	1	10 0	10·0	322
12 0	1	23 0	23 0	335
	BHUJ/RUDRAMATA 0530 hr			
10 5	1	18 0	18 0	255
12 0	1	22 0	22·0	259
	BOMBAY/SANTACRUZ 0530 hr *			
10 5	30	28 2	25 9	247
12 0	29	32 8	31 4	249
14 1	20	32 1	29·1	250
16 2	13	19 3	17 3	243
18 0	4	12 0	11 6	239
21 0	2	16 0	10 3	256
	1130 hr			
10 5	19	27·6	2 7	266
12 0	15	30·7	27 1	253
14 1	9	31 7	29 3	259
16 2	5	32 2	3 2	269
18 0	1	23 0	22 8	214
	1730 hr *			
0·5	31	28·3	24 2	251
2 0	29	28 7	26 0	252
4 1	24	28 0	25 3	250
6 2	17	26·0	24·0	253
8 0	9	22·6	22 1	249
21 0	2	14 0	13 9	280
	CALCUTTA/DUMDUM 0530 hr *			
10 5	31	29·3	27 8	265
12 0	31	31 8	29 9	261
14 1	31	25 9	24 9	263
16 2	30	24 3	23 3	265
18 0	18	19 9	19 0	278
21 0	1	15 0	15·0	310

Ht. in Km.	n	V	v	D
	1130 hr			
10 5	2	23 5	22 5	272
12 0	2	26 5	25 0	269
14 1	1	28 0	28 0	285
	1730 hr *			
10 5	31	31 5	30 2	263
12 0	30	36 8	36 0	257
14 1	25	30 2	28 4	264
16 2	22	24 3	24 0	266
18 0	11	15 4	12 8	279
	DIBRUGARH/MOHANBARI 1130 hr.			
10 5	4	57 7	38 0	287
12 0	2	67 0	67 0	270
	GADAG 0530 hr			
10 5	10	19·4	16 4	266
12·0	9	23 0	17 5	271
14 1	6	26 5	18 7	248
16 2	3	10 3	7·8	235
18 0	8	12 0	11 7	245
21 0	3	13 0	10 2	228
	1730 hr			
10 5	9	22 0	19 5	276
12 0	8	26 4	22 0	272
14 1	6	21 8	14 3	277
16 2	6	12 0	10 2	276
18 0	6	7 3	6 2	250
21·0	4	11 3	4 2	232
21 0	3	16 3	7·9	181
27·0	2	32 0	20 3	243
	GANGTOK 0830 hr			
10·5	4	25 5	25 3	290
12 0	2	31 5	31 5	291
	1730 hr.			
10 5	3	25 7	24 6	283
	GAUHATI 0530 hr *			
10·5	14	35 2	32 5	273
12, 0	9	33 6	29·9	274
	1130 hr			
10·5	5	38 4	37·8	292
12 0	2	41 5	40 1	288
14 1	1	30 0	30 0	290

Ht in Km.	n	V	v	D
	1730 hr.*			
10 5	20	40 5	38 4	276
12 0	17	49 7	47 1	279
14 1	9	41 3	39 2	282
16 2	1	36 0	36 0	273
	GOPALPUR 1730 hr			
10·5	1	36 0	36 0	265
	GWALIOR 1130 hr			
10·5	1	23 0	23 0	265
	1730 hr.			
10 5	2	32 0	31 9	283
	JAGDALPUR 0530 hr			
10 5	5	24 2	23 6	264
12 0	4	27 8	25·5	262
14 1	2	30 5	29 2	260
16 2	1	30 0	30 0	270
18 0	1	36 0	36 0	280
	1730 hr			
10 5	4	19 7	15·9	290
12 0	3	28 0	22·6	278
14 1	1	28 0	28 0	310
16 2	1	25 0	25·0	270
	JODHPUR 0530 hr.*			
10 5	11	25 6	24 4	260
12·0	8	32 7	31 9	253
14 1	2	30 5	30 4	270
16 2	1	28 0	28 0	274
	1130 hr*			
10·5	8	38·4	37 7	264
12 0	5	45 6	39 3	263
	1730 hr *			
10 5	14	29 9	28 6	262
12 0	12	29 7	28 8	257
14 1	3	37 0	36 9	260
16 2	2	35·0	35·0	253
	LUCKNOW/AMAUSI 1730 hr			
10 5	1	21 0	21 0	300
12 0	1	22 0	22 0	275
	MADRAS/MINAMBAKKAM 0530 hr.*			
10 5	30	18·0	15 0	251
12 0	29	19 5	16 0	246
14·1	29	16·3	12 6	251
16·2	27	10 9	7 0	270
18 0	19	8 7	5 9	256
21·0	8	9 5	6 8	268
24 0	3	8·7	3 7	131

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9 0 km. above mean sea level

January, 1965 (Pausa 11—Magha 11, 1886 Saka)

Ht in Km	n	V	v	D
		1130 hr		
10·5	1	11 0	11 0	235
		1730 hr *		
10 5	29	16 9	13 9	244
12 0	29	17 9	11 6	243
14·1	28	17 4	11 9	245
16·2	22	9 7	6 1	260
18·0	14	6 6	3 5	258
21 0	4	7 5	6 9	302
		MANGALORE/BAJPE 0530 hr		
10 5	8	11 9	4 7	170
12·0	7	14 0	10 3	220
14 1	1	16 0	16 0	225
		1730 hr.		
10 5	11	15 6	11·9	262
12 0	11	20 4	14 3	244
14·1	2	31 0	30 0	247
		MINICOY 0530 hr.		
10 5	3	19·3	16 7	250
12 0	2	27 5	26 9	273
14 1	1	24·0	24 0	280
16 2	1	24 0	24·0	270
		1130 hrs		
10 5	10	16 4	14 0	269
12 0	9	18 2	15 9	275
14·1	3	13 7	13 7	277
16 2	2	15 5	15 1	245
18·0	1	3 0	3 0	255
		1730 hr *		
10 5	31	12 4	6 1	238
12·0	31	14 9	6·8	237
14 1	30	14·4	6 4	268
16 2	29	9 2	3·1	251
18 0	26	8 1	2 7	242
21 0	13	10·8	10 2	161
24·0	9	8 8	3 0	232
		NAGPUR/SONEGAON 0530 hr *		
10 5	31	24 2	22 6	261
12 0	30	24 5	22·6	255
14 1	13	27 7	26 7	261
16 2	3	20·0	18·3	248
		1130 hr.		
10 5	13	33·0	31·9	258
12·0	9	34 5	33 4	258

Ht in Km.	n	V	v	D
		1730 hr.*		
10·5	29	23 5	21·6	264
12 0	29	24 3	21 9	258
14 1	10	26 7	25 3	255
16 2	3	34 6	33 5	253
		NEW DELHI/ SAFDARJUNG 0530 hr *		
10 5	24	32 8	31 4	274
12 0	21	35 3	34 1	270
14 1	20	29 6	28 3	268
16 2	18	22 1	21 8	265
18 0	16	13·9	13·3	272
21·0	13	5 8	2 0	280
24 0	8	9 7	6 9	275
		1130 hr.		
10 5	1	19 0	19 0	270
		1730 hr.*		
10 5	23	34 1	32 0	274
12 0	22	35·5	34 1	269
14·1	20	32 2	30 9	266
16 2	15	25 5	24·6	270
18 0	14	15 6	14 4	266
21 0	12	8 1	4 1	265
24 0	8	12 1	10 3	276
27 0	3	9 3	5 3	270
30 0	1	15 0	15 0	260
		POONA 1730 hr.		
10 5	7	25 3	23 6	264
12 0	4	30 3	28 7	262
14 1	2	23·5	22 8	258
16 2	2	14 0	13 5	258
18 0	1	8 0	8 0	255
21 0	1	5·0	5 0	120
		PORTBLAIR 0530 hr *		
10 5	30	12 0	8 4	214
12 0	30	15 4	12 1	219
14 1	21	14 5	10 5	212
16·2	14	10 3	5·1	185
18 0	5	5 6	3 5	265
21·0	1	8 0	8·0	270
		1130 hr		
10 5	9	12·3	9 2	194
12 0	7	18 6	15·3	222
14·1	5	20 2	14·2	227
16 2	4	12 3	8 8	230
18·0	3	12 3	12 3	216
21 0	2	7 0	3·7	189

Ht in Km.	n	V	v	D
		1730 hr *		
10 5	30	12 0	8 9	218
12 0	30	15 1	12 0	223
14 1	20	14 6	10 3	222
16 2	7	15 3	8 7	215
18 0	2	31 0	30 6	229
		RAIPUR 0530 hr		
10 5	3	28 2	27 0	268
12 0	2	39 0	38 2	261
		1730 hr		
10 5	4	33·5	31·2	257
		SRINAGAR 0530 hr *		
10·5	11	35 1	32·7	266
12 0	9	41·0	39 0	268
14 1	3	50 0	48 5	273
		1730 hr *		
10 5	13	27 5	26 1	265
12 0	13	33 6	33 1	265
14 1	6	40 7	39 5	274
		TIRUCHCHIRAPPALLI 0530 hr		
10 5	4	15 0	3 5	258
12 0	2	20·5	18 9	276
		TRIVANDRUM 0530 hr *		
10 5	31	14 6	6 2	217
12·0	31	16·8	8 3	226
14 1	30	16 7	8 9	221
16 2	22	10·7	2·0	234
18 0	15	10 4	3 0	256
21·0	6	12 3	9 8	262
24 0	3	4 7	4·4	001
		1130 hr		
10 5	15	14 8	9 1	261
12·0	12	15 6	10 1	251
14 1	11	15 4	12 1	261
16 2	8	10 5	7 3	198
18 0	7	7 9	3 0	256
21·0	6	12 0	7 2	230
24 0	3	7·3	3 4	164
27 0	1	7 0	7·0	085
		1730 hr *		
10·5	31	14·2	7·4	214
12·0	31	16 7	8 6	221

Ht in Km	n	V	v	D
		1730 hr *		
14 1	30	15 6	6 3	215
16 2	25	9 8	1 8	247
18 0	18	5 7	2 8	230
21·0	11	12 6	10 8	261
24·0	2	22 0	10 1	017
		UDAIPUR 0530 hr		
10 5	7	22 3	21 8	265
12 0	2	27 5	24 7	241
		VENGURLA 1730 hr.		
10 5	3	22 0	21 5	251
12 0	1	35 0	35 0	260
		VERAVAL 1730 hr		
10 5	10	31·0	28 1	254
12 0	7	31·9	28 8	257
14·1	5	30 2	29 2	262
16 2	3	26·7	26 7	249
18 0	1	7 0	7·0	254
21 0	1	62 0	62 0	264
		VIJAYAWADA/ GANNAVARAM 0530 hr		
10 5	17	22·3	19 9	269
12 0	14	25 0	23 3	259
14 1	12	18 7	16 7	261
16 2	10	11 2	9 5	265
18 0	8	7 7	6 9	259
21·0	4	4 5	0 4	109
		1730 hr		
10 5	12	22 0	19·9	264
12 0	8	18 3	17·5	251
14 1	3	8 7	8 3	260
		VISHAKHAPATNAM 0530 hr.*		
10 5	28	29 0	26 6	258
12 0	27	30·0	28·8	250
14 1	21	26 0	24 0	259
16 2	11	14 6	11 5	266
18 0	5	11 6	8·7	294
21·0	2	9 5	9·5	313
24 0	1	4 0	4 0	345
		1130 hr.		
10 5	5	23·6	20·6	264
12 0	5	27.8	24 5	267
14 1	4	20 3	18 7	257
16·2	3	18 3	17·1	265

Ht in Km	n	V	v	D
		1130 hr		
18 0	2	12·0	11 9	267
21·0	2	9 0	9 0	092
24 0	1	8·0	8·0	115
		1730 hr *		
10 5	29	28 6	26 4	255
12 0	29	29 4	27 1	253
14 1	22	33 1	31 0	258
16 2	13	21 3	19 4	266
18 0	6	14 3	12 3	276

RADIOSONDE DATA

January, 1965 (Pausa 11—Magha 11, 1886 Saka)

During the month, observations of upper air temperature, pressure and humidity were made at 15 stations in India as given in the li below. For detailed description of the instruments used, a reference may be made to the I.M.D. Scientific Notes Nos. 112 and 1 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of station	Type of instrument used	Date of starting	Hours of routine observations in G.M.T. during the month	Remarks
1	Ahmadabad	Fan type	20th July 1961	00 and 12	
2	Allahabad/Bamhrauli	Clock type	1st October 1944	00 and 12	
3	Bangalore	Fan type	10th March 1961	00 and 12	
4	Bombay/Santa Cruz	Clock type	7th September 1954	00 and 12	
5	Calcutta/Dum Dum	Clock type	13th December 1946	00 and 12	Fan type used from 13-12-4 to 30-11-47.
6	Gauhati	Clock type	22nd July 1955	00 and 12	
7	Jodhpur	Clock type	17th April 1946	00 and 12	
8	Madras/Minambakkam	Fan type	29th June 1946	00 and 12	
9	Minicoy	Fan type	12th May 1963	12	
10	Nagpur/Sonegaon	Fan type	1st October 1946	00 and 12	
11	New Delhi/Safdarjung	Clock type	3rd December 1943	00 and 12	
12	Port Blair	Fan type	4th December 1949	00 and 12	
13	Srinagar	Clock type	1st August 1962	00 and 12	
14	Trivandrum	Fan type	1st July 1947	00 and 12	
15	Vishakhapatnam	Fan type	8th December 1946	00 and 12	

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 00 Hours G.M.T.

January, 1965 (Pausa 11—Magha 11, 1886 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf Pr. (1008 mb)						ALLAHABAD/BAMHRAULI (1005 mb)						BANGALORE (912 mb)				
	No. of Obs.	Ht. gpm	Temperature °A			Dew point	No of Obs	Ht gpm	Temperature °A			Dew point	No of Obs	Ht gpm	Temperature °A			
			Mean	Max	Min				Mean	Max	Min				Mean	Max	Min.	Dew poin
Surface	31	055	289 8	294	285	281 9	31	098	283 5	288	280	281 2	31	921	288 0	291	284	287 1
1000	31	124	291 0	297	286	281 6	31	138	284 2	288	281	280 6	31	138				.
900	31	1035	291 9	297	285	276 8	31	1027	286 0	290	283	276 4	31	1035	288 1	291	285	285 9
850	31	1524	288 5	293	283	274 5	31	1505	283 5	287	280	272 9	31	1520	287 7	291	285	279 3
800	31	2035	284 8	289	279	271 5	31	2008	281 4	285	277	270 0	31	2032	285 7	289	281	274 0
700	31	3138	277 6	281	271	261 9	31	3100	275 9	282	271	262 4	31	3146	281 6	285	277	265 3
600	31	4378	270 3	277	265	247 7	31	4332	269 0	276	263		31	4407	274 7	277	271	259 2
500	31	5798	261 2	267	255	.	31	5745	259 4	265	253		31	5855	265 9	270	262	
400	31	7473	249 9	257	243		31	7404	248 7	255	242		31	7558	253 7	258	249	..
300	31	9522	235 7	244	227		31	9441	234 5	244	226		31	9635	238 7	244	234	
250	31	10759	227 4	234	217	.	31	10672	225 8	238	219		31	10887	229 5	235	226	
200	31	12214	218 3	225	209		30	12135	218 4	227	209		30	12353	218 4	225	212	
175	28	13053	214 2	223	208		26	12995	215 7	223	209		28	13202	212 9	215	209	
150	27	14021	210 7	219	203		24	13951	212 0	218	206		27	14143	206 9	213	201	.
125	26	15175	206 1	214	197		24	15080	207 9	214	198		24	15228	201 9	208	194	
100	24	16461	201 2	210	191		18	16396	203 8	211	195		24	16549	197 2	205	192	
80	21	17781	200 7	207	193		11	17700	202 1	212	195		17	17846	197 8	208	193	..
70	18	18535	202 8	213	195		5	18446	202 2	212	196		15	18635	199 7	210	193	.
60	17	19479	207·0	215	199	.							13	19551	201 5	213	191	.
50	14	20602	211 9	217	207	..							12	20613	205 3	213	197	
40	11	21981	215 8	219	211		.						12	21968	208 7	216	202	.
30							..	.					9	23761	214 7	223	207	..
20			.		.		..	.	.						.		.	.
10							..	.	.	..	..	.	.				.	.

	BOMBAY/SANTACRUZ Surf Pr (1011 mb)						CALCUTTA/DUM DUM (1015 mb)						GAUHATI (1010 mb.)					
Surface	31	013	292 4	297	287	286 9	31	006	287 0	291	283	285 4	31	049	285 5	288	283	284 0
1000	31	110	294 5	299	290	285 5	31	130	288 2	291	284	283 7	31	132	286 6	291	284	283 4
900	31	1029	293 4	297	286	280 3	31	1028	286 8	288	282	278 8	31	1026	287 0	291	282	279 6
850	31	1521	289 9	293	284	277 5	31	1509	283 8	287	279	275 1	31	1506	283 4	287	279	276 6
800	31	2036	286 0	291	282	275 9	31	2013	281 2	285	277	269 1	31	2009	280 2	285	275	272 4
700	31	3145	279 7	284	274	267 6	31	3110	277 4	282	271	261 8	31	3096	274 6	279	270	260·9
600	31	4397	272 -	279	265	262 1	31	4356	271 3	275	266	255 8	31	4331	270 5	275	265	..
500	31	5832	263 4	269	255		31	5782	262·2	266	258		31	5755	261 7	269	255	.
400	31	7517	250·9	259	241		31	7491	250 6	258	245		31	7432	250 3	259	244	
300	31	9569	235 4	243	227		31	9513	235·6	242	229		30	9484	236 6	250	227	..
250	31	10803	226 2	233	219	.	31	10750	227·5	235	220		28	10730	228 3	236	220	
200	30	12252	217 4	221	209		31	12211	219 0	225	210	.	28	12184	219 7	229	213	..
175	27	13078	212 7	219	199		31	13057	214 0	221	206	.	19	13055	216 8	226	209	..
150	26	14030	208 7	217	201		30	14021	209 4	215	204		11	14006	211 9	218	208	..
125	24	15145	203 3	212	197		30	15119	204·6	213	196	.	7	15137	207 1	213	196	..
100	22	16475	200 5	213	190		30	16451	199 4	206	191		.			.		..
80	16	17754	203 6	225	190		24	17753	197 8	209	189		..					..
70	11	18615	205 6	214	199		20	18543	201 0	213	191		.	.				..
60	6	19553	210 2	219	202	.	12	19431	203 5	217	194	.		.	.			..
50	6	20686	214 3	225	203	..	6	20496	205 0	211	199							..
40	.	.	.						..		..						.	..
30	.	..			.	..			.	.			.				.	..
20		..		..									.				..	..
10		.			..	.			.	..						.	.	.

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M. T.

January, 1965 (Pausa 11—Magha 11, 1886 Saka)

Standard Pressure Surface mb.	JODHPUR Surf Pr (991 mb)						MADRAS/MINAMBAKKAM (1012 mb)						NAGPUR/SONEGAON (979 mb)					
	No of obs	Ht gpm	Temperature °A				No of obs	Ht gpm	Temperature° A				No of obs	Ht gpm	Temperature °A			
			Mean	Max	Min	Dew point			Mean	Max	Min	Dew point			Mean	Max	Min.	Dew point
Surface	31	218	287 5	291	284	279 7	31	015	294 1	297	291	292 3	31	311	287 5	291	284	283 4
1000	30	138					31	118	295 0	297	292	291 4	31	134				
900	30	1036	289 7	296	285	276 2	31	1028	290 1	293	287	285 5	31	1031	290 6	295	287	281 3
850	30	1519	286 8	295	281	274 2	31	1515	287 3	291	284	279 8	31	1518	287 7	291	284	278 6
800	30	2026	283 1	290	277	271 0	31	2027	285 2	287	282	272 9	31	2028	284 1	287	281	275 7
700	30	3119	275 7	280	268	264 4	31	3139	281 6	283	278	263 9	31	3132	278 7	284	275	264 9
600	30	4349	268 0	273	260		31	4400	274 3	280	269	258 8	31	4377	271 7	277	268	257 0
500	30	5758	258 9	264	253		31	5848	265 5	269	262		31	5807	263 0	267	259	
400	26	7420	247 5	254	241		31	7551	254 3	258	249		31	7487	251·0	257	248	
300	15	9429	230 7	241	224		30	9632	238 2	245	235		31	9540	235 6	243	229	
250	12	10637	221 7	230	217		29	10879	228 9	234	225		31	10774	226·6	236	219	
200	9	12045	213 3	220	210		29	12340	217 1	225	212		30	12228	217 8	226	210	
175	6	12859	211 8	214	210		29	13167	211 7	218	204		26	13087	213 8	221	208	
150	5	13790	211 0	213	209		29	14126	205 8	214	199		26	14039	209 5	217	201	
125							28	15196	200 8	210	193		23	15130	204 9	214	193	
100							28	16507	196 5	203	190		23	16454	199 6	212	191	
80							22	17799	197 4	205	187		22	17774	199 4	211	193	
70							21	18591	200 7	213	192		21	18577	200 9	211	193	
60							18	19480	202 7	215	195		18	19456	202 7	211	195	
50							15	20553	206 8	219	201		15	20542	205 8	216	199	
40							9	21904	209 3	216	204		9	21898	208·5	219	203	
30							6	23583	213·0	217	210		5	23603	211 2	219	207	
20																		
10																		

Standard Pressure Surface mb.	NEW DELHI/SAFDARJUNG Surf Pr (992 mb)						PORT BLAIR (1003 mb)						SRINAGAR (849 mb)					
	No of obs	Ht gpm	Temperature °A				No of obs	Ht gpm	Temperature °A				No of obs	Ht gpm	Temperature °A			
			Mean	Max	Min	Dew point			Mean	Max	Min	Dew point			Mean	Max	Min	Dew point
Surface	31	209	284 2	288	281	280 2	31	079	295 6	298	293	292·2	15	1588	269 9	273	268	269·9
1000	31	141					31	105	295 6	298	293	292·2	14	269				
900	31	1029	286 7	291	282	270 8	31	1018	290 8	294	287	287 3	15	1121				
850	31	1509	284 3	289	279	268·7	31	1505	288 0	293	283	283 0	15	1577	268.4	270	267	
800	31	2013	281·4	287	275	266 3	31	2017	285 0	291	278	279 0	15	2054	267 2	273	262	
700	31	3102	274 1	282	268	258 9	31	3132	283 0	287	279	268 7	15	3099	266 5	271	260	
600	31	4326	267 0	273	259		31	4398	275 9	279	271	262 2	15	4290	260 9	267	256	
500	31	5728	257 3	263	252		31	5855	268 1	273	263		15	5662	251·8	260	246	
400	31	7372	245 7	251	242		31	7571	256 5	262	251		15	7276	241 3	246	236	
300	31	9388	232 3	241	224		30	9666	240·7	245	235		14	9259	227·6	233	224	
250	31	10608	224 3	233	217		30	10927	230 7	237	227		14	10456	220·4	227	216	
200	31	12048	216·9	225	210		30	12400	219 6	227	215		14	11877	215 2	223	211	
175	30	12892	213·9	221	204		21	13232	213 3	221	209		12	12724	215 8	221	210	
150	30	13854	212 0	220	205		19	14198	207 2	213	202		10	13692	215·5	220	209	
125	30	14978	208·7	216	199		16	15291	200 6	207	192		9	14845	215 1	222	208	
100	30	16330	205 6	213	196		13	16592	197 6	201	195		7	16252	214·6	220	210	
80	30	17671	205·2	212	198		9	17884	197 3	203	193							
70	29	18456	207·1	214	199		7	18660	199 6	205	195							
60	24	19414	209 5	216	198		5	19546	201 4	207	195							
50	18	20579	213·2	219	209													
40	14	21985	216 1	221	214													
30	8	23854	219 6	226	217													
20																		
10																		

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G M T.

January, 1965 (Pausa 11—Magha 11, 1886 Saka)

Standard Pressure Surface mb	TRIVANDRUM Surf. Pr (1003 mb)						VISAKHAPATNAM (1010 mb)					
	No. of Obs	Ht gpm.	Temperature °A				No of Obs	Ht gpm	Temperature °A			
			Mean	Max	Min	Dew point			Mean	Max	Min	Dew point
Surface	31	064	297 2	299	296	292 1	31	041	294 3	297	291	291·1
1000	31	093	297.1	299	296	291 8	31	127	294·6	297	292	291 4
900	31	1011	291.7	293	289	286 6	31	1034	289.5	293	285	280·6
850	31	1502	289 1	291	287	282 9	31	1518	286 4	290	283	278 5
800	31	2017	286 8	289	285	277 4	31	2027	283 5	287	281	274·2
700	31	3136	282 2	286	278	269 2	31	3133	279 6	285	275	262·9
600	31	4398	275 5	279	271	259 9	31	4386	273 2	277	270	260 7
500	31	5850	267 2	271	264	..	31	5822	263·4	267	259	
400	31	7561	255 2	259	251		31	7508	251 6	257	246	
300	31	9653	240 0	246	237	..	30	9575	235 6	241	228	
250	31	10910	231 1	241	227		28	10813	226 4	232	218	
200	31	12382	218 3	227	214		28	12262	216 3	225	209	
175	30	13213	212 3	217	207	..	26	13088	211 0	219	202	
150	30	14173	206 4	219	198	..	26	14041	206 6	217	201	
125	26	15238	199 9	211	195		22	15108	201 5	208	194	
100	25	16554	195 0	203	189	..	21	16439	197 0	203	190	
80	22	17830	197 9	209	189		20	17738	198 3	206	191	
70	18	18610	201 7	219	196	..	18	18524	199 0	209	193	.
60	14	19553	204 3	217	197	..	17	19432	203 5	215	197	..
50	13	20677	208 3	219	202	..	11	20536	208 4	217	204	..
40	8	21947	210 4	216	205	.	8	21909	212 0	218	206	
30	5	23704	213.0	220	209	.						
20												
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RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

January 1965 (Pausa 11—Magha 11, 1886 Saka)

Standard Pressure Surface mb	AHMADABAD Surf Pr (1007 mb)						ALLAHABAD/BAMHRAULI (1003 mb)						BANGALORE (910 mb)					
	No of obs.	Ht. gpm.	Temperature °A				No of obs	Ht gpm	Temperature °A				No of obs	Ht gpm.	Temperature °A			
			Mean	Max	Min.	Dew point			Mean	Max	Min	Dew point			Mean	Max	Min	Dew point
Surface	31	55	302 1	306	291	283 5	31	098	296 6	300	293	283 1	31	921	297 0	298	295	285 5
1000	31	118	301 7	306	291	283 4	31	128	296 5	300	293	283 1	31	095	..	.		..
900	31	1042	293·4	298	286	277 8	31	1034	288 8	294	285	274 8	31	1020	296 3	298	294	284 2
850	31	1532	289 1	295	283	274 5	31	1518	285 6	289	282	270 4	31	1515	292 0	294	289	281 7
800	31	2044	284 8	291	279	270 9	31	2024	283 3	288	279	266 7	31	2032	287 3	291	284	279 2
700	31	3149	278 3	283	275	262 7	31	3123	277 9	282	273	260 0	31	3145	281 2	283	278	266 1
600	31	4393	270 7	276	267	256 8	31	4364	270 9	276	265	249 3	31	4407	275 3	279	273	257 4
500	31	5816	262 0	269	257	.	31	5788	261 4	266	256	..	31	5855	265 7	270	262	.
400	31	7494	250 1	259	245		31	7463	250 4	257	245		31	7557	253·8	258	248	..
300	31	9542	234 9	243	228		30	9519	236 2	244	229		29	9641	239 7	246	234	..
250	31	10774	226 3	234	220		30	10762½	227 0	236	219	.	29	10895	230 2	238	224	.
200	31	12226	217 8	225	212		30	12223	219 7	227	214		29	12362	218 5	222	212	.
175	31	13076	214 4	221	207		27	13075	216 0	221	210		23	13191	212 1	215	206	..
150	30	14038	210 8	218	200		25	14036	212 2	218	206		23	14141	206 0	211	199	..
125	27	15164	206 1	213	198		23	15185	208 8	215	203		20	15233	201·5	206	194	.
100	27	16480	201 4	209	194	.	20	16537	205 3	212	197		20	16542	196 9	203	189	..
80	26	17873	201 4	211	193		11	17911	204 2	210	197		14	17841	196 2	205	188	.
70	25	18602	203 8	216	195	-	9	18716	205 9	211	197		14	18628	197 9	207	190	.
60	21	19559	208 0	219	199	.	5	19728	208 2	217	199	.	14	19543	200 6	209	193	
50	15	20709	212 7	223	203	.							13	20569	204 1	213	197	
40	8	22061	216 0	221	209								6	21876	204 2	212	199	
30																		
20																		
10																		

	BOMBAY/SANTACRUZ Surf. Pr. (1010 mb.)						GALCUTTA/DUM DUM (1013 mb)						GAUHATI (1008 mb.)					
Surface	31	013	301 0	307	296	289 8	31	006	296 7	300	291	287 5	31	49	293 4	296	289	288.0
1000	31	103	300 3	306	295	288 6	31	0122	297 2	301	293	285 1	31	117	293.6	296	290	287.2
900	31	1027	295 0	299	290	282 9	31	1037	290 5	293	286	279 1	31	1021	288 5	293	284	278 8
850	31	1520	290 9	294	287	279 6	31	1523	286 8	290	282	274 5	31	1503	284 6	290	278	275·4
800	31	2037	286 4	291	283	277·7	31	2032	284 4	289	280	268·8	31	2007	281·1	287	275	271·7
700	31	3148	279 8	285	275	266 8	31	3140	279 8	284	275	259 2	31	3097	275 1	284	271	263·8
600	31	4400	273 0	277	269	258 7	31	4395	273 6	277	271	252 4	31	4331	270 5	274	264	..
500	31	5837	264 0	271	259		31	5832	264 6	272	261		31	5754	261 4	268	254	..
400	31	7523	251 0	258	245		31	7525	252 9	261	249		31	7430	250·5	259	243	.
300	31	9579	235 8	242	226	.	31	9599	238 0	244	232		30	9483	236 3	243	229	..
250	31	10814	226 3	233	219	..	31	10847	229 0	235	224		28	10721	227·8	235	221	..
200	31	12264	216 8	222	212	.	31	12317	220 1	225	214		28	12264	219·7	227	214	..
175	31	13106	212 7	218	208		30	13177	215 9	223	208		26	13034	216 8	227	210	.
150	27	14060	207 7	214	202		29	14146	211 9	219	203	.	19	14025	212 8	220	207	..
125	27	15162	202 2	207	195	.	29	15271	207 3	215	197	.	11	15131	208 3	213	203	..
100	26	16477	199 7	207	188		27	16608	202 4	210	191	.	5	16456	207·0	211	205	
80	25	17802	200 4	209	191	.	17	17996	201 9	210	195							..
70	13	18601	203 6	208	199		14	18757	204 4	211	198							
60	10	19565	209 0	215	201		10	19730	209 7	221	202	..						
50	10	20692	213 3	221	206	..	9	20854	213 9	222	209	.						
40	7	22067	216 1	221	212	.												
30																		
20																		
20																		

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

January, 1965 (Pausa 11—Magha 11, 1886 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (989 mb)						MADRAS/MINAMBAKKAM (1011 mb)						MINICOY (1011 mb)					
	No. of obs	Ht. gpm	Temperature °A				No of obs	Ht gpm	Temperature °A				No of obs	Ht gpm	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max	Min	Dew point			Mean	Max.	Min	Dew point
Surface	31	218	298 4	304	290	282 8	31	15	299 2	301	299	292 3	31	002	300 0	301	299	294 3
1000	31	125					31	113	298 6	300	298	291 4	31	095	298 9	300	297	293 8
900	31	1038	291 5	296	285	277 7	31	1029	291 5	294	289	284 7	31	1016	291 5	295	289	287·0
850	31	1523	287 3	292	281	274 2	31	1518	288 8	293	289	278 8	31	1505	289 2	293	286	283·5
800	31	2030	283 2	289	277	271 7	31	2033	286 2	289	283	273 0	31	2020	286 8	293	281	278 9
700	31	3123	276 1	282	268	262 3	31	3147	282 5	286	277	265 3	31	3138	282 0	288	279	269·8
600	31	4362	268 6	274	261		31	4412	275 6	279	271	260 3	31	4399	274 9	283	271	263 4
500	30	5774	259 6	264	255		31	5865	266 7	269	262		31	5846	266 4	273	261	.
400	28	7438	247 8	253	243		31	7575	255 1	259	250		31	7551	254 9	262	251	.
300	16	9477	232 1	238	227		30	9661	239 5	245	235	.	30	9632	239 8	244	233	
250	14	10697	224 1	231	214		29	10914	220 8	235	225		30	10886	229 9	235	229	.
200	11	12129	216 6	222	210		29	12383	217 7	225	212		30	12349	217 7	222	213	
175	7	13010	215 7	221	211		29	13213	211 8	219	204		29	13173	212 0	216	208	
150	5	13975	215 0	221	211		29	14163	205 1	212	196		29	14127	206 0	212	201	
125							27	15244	200 1	207	190		28	15191	199 9	208	195	
100							23	16569	197 5	203	189		28	16502	195 1	204	182	
80							17	17857	199 3	203	190		25	17784	197 1	207	192	
70							14	18636	201 3	207	191		21	18551	199 7	209	195	.
60							10	19551	203 1	208	196		19	19437	202 5	207	194	
50							8	20660	206 3	210	201		15	20540	205 5	213	195	.
40													11	21860	208 2	215	201	.
30													8	23568	210 5	214	206	
20																		
10																		

	NAGPUR SONEGAON Surf, Pr (978 mb)						NEW DELHI/SAFDARJUNG (991 mb)						PORT BLAIR (1002 mb.)					
Surface	31	311	298 9	303	293	284 4	31	209	293 9	297	287	282 4	31	079	298 5	301	298	292·3
1000	30	114					31	132					31	100	298 0	300	297	292 1
900	30	1035	293 0	297	289	282 5	31	1033	288 2	293	284	274 7	31	1015	291 7	295	285	287 3
850	30	1524	289 0	292	285	280 7	31	1515	285 2	290	280	270 1	31	1504	288 5	291	285	283 6
800	30	2037	285 1	289	281	277 2	31	2020	282 2	287	277	267 2	31	2018	286 4	291	280	279 0
700	30	3144	279 1	283	275	268 5	31	3112	275 3	282	269	257 9	31	3133	283 0	289	277	269 8
600	30	4391	272 2	281	266	255 3	31	4340	267·5	274	260		31	4399	276 2	281	273	262 4
500	30	5821	262 8	273	256		31	5746	258 3	264	249		31	5854	267 4	272	262	.
400	30	7499	250 3	263	242	.	31	7400	247 3	253	242		31	7567	256 2	260	251	.
300	30	9550	234 8	243	225	.	31	9427	233 0	241	227		30	9662	240 3	245	235	.
250	30	10781	226 1	235	218	..	30	10645	225 0	232	218		30	10923	230 9	241	225	.
200	30	12229	217 3	224	210	..	30	12092	218 1	225	211		29	12397	220 7	233	214	..
175	29	13071	213 4	219	208	.	28	12934	215 4	222	208	.	24	13215	212 6	220	204	..
150	29	14025	208 8	213	203	..	27	13908	213 1	221	205		19	14192	206 2	211	199	..
125	27	15112	205 2	215	199	.	26	15034	210 7	217	203	.	15	15287	200 0	209	190	
100	27	16445	200 5	209	193		25	16404	207 9	217	200		11	16637	195·8	202	190	
80	24	17764	200 5	207	196	.	24	17754	207 7	215	198							
70	24	18553	201.5	209	193	..	23	18567	209 0	215	201							
60	18	19456	203·1	212	195	..	23	19523	211 1	219	204							
50	14	20540	205 1	211	198	..	23	20654	213 6	223	205	.						
40	9	21879	208.2	213	204	..	19	22085	217 3	225	210	..						
30							11	23912	218 3	226	209	..						
20							5	26535	220 4	225	214	..						
10																		

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 12 Hours G. M. T.

January, 1965 (Pausa 11—Magha 11, 1886 Saka)

Standard Pressure Surface mb.	SRINAGAR Surf. Pr. (844 mb)						TRIVANDRUM (1002 mb.)						VISHAKHAPATNAM (1009 mb)					
	No. of obs.	Ht. gpm	Temperature °A				No of obs	Ht gpm	Temperature °A				No of Obs.	Ht gpm.	Temperature °A.			
			Mean	Max.	Min	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew point
Surface	17	1588	275·1	278	271	273·1	31	064	302 3	304	300	293 7	31	041	299 0	300	298	292 2
1000	15	201		.	.		31	083	302 0	303	300	293 2	31	120	298 0	300	296	290.7
900	17	1068		.			31	1010	293 6	297	290	288 0	31	1033	290 9	294	287	281·6
850	17	1535	.	..			31	1503	290 0	294	286	285 1	31	1520	288 1	291	285	278 5
800	17	2021	270·8	273	265	270 1	31	2019	287 0	293	283	280 5	31	2031	284 9	287	283	274 6
700	17	3073	267.2	271	262		31	3139	282 8	290	279	269 2	31	3141	280 3	283	277	264·7
600	16	4264	260.0	264	255		31	4404	275 8	282	273	260·4	31	4399	274 1	277	269	257 3
500	16	5629	250 9	256	246	.	31	5859	268 0	274	262		31	5842	265 0	269	261	
400	15	7237	239 5	246	234		31	7574	255·9	260	252		31	7538	253 1	260	248	
300	14	9193	225 5	230	220	..	31	9670	240 7	245	236		31	9605	237 0	242	231	.
250	14	10380	219 4	226	213		31	10933	230 9	238	225	.	31	10847	227 7	232	222	.
200	14	11800	216 6	224	209	.	31	12404	218·6	226	213	.	31	12304	217 4	221	211	.
175	14	12649	216 9	223	211	.	30	13238	212·7	220	205	.	30	13142	212 5	217	202	.
150	14	13624	215 4	219	212	.	30	14196	206 3	215	197		28	14098	208 4	216	198	
125	11	14763	214 5	221	209	.	28	15287	200·6	209	189		27	15196	203 1	210	194	
100	6	16170	215 8	218	211	..	26	16592	195·6	205	189	.	25	16527	199 0	206	194	.
80							20	17876	196·7	205	193	..	19	17836	198·5	203	195	.
70							19	18661	199·3	208	193		17	18627	200 0	204	196	..
60							18	19571	203·7	211	197	.	12	19564	202 2	209	198	..
50							15	20612	207·3	212	201	.	10	20629	205·9	214	201	..
40							9	22035	211 8	218	207	..	7	21938	207·7	216	200	..
30																		
20																		
10																		

Note.—Number of observations refer to those of dynamic height.

Means are not worked out for temperature and dew point for the 1000 mb surface and for dew point for standard pressure surfaces with temperature less than 273°A.

Means are not worked out for less than five observations at standard pressure surfaces.

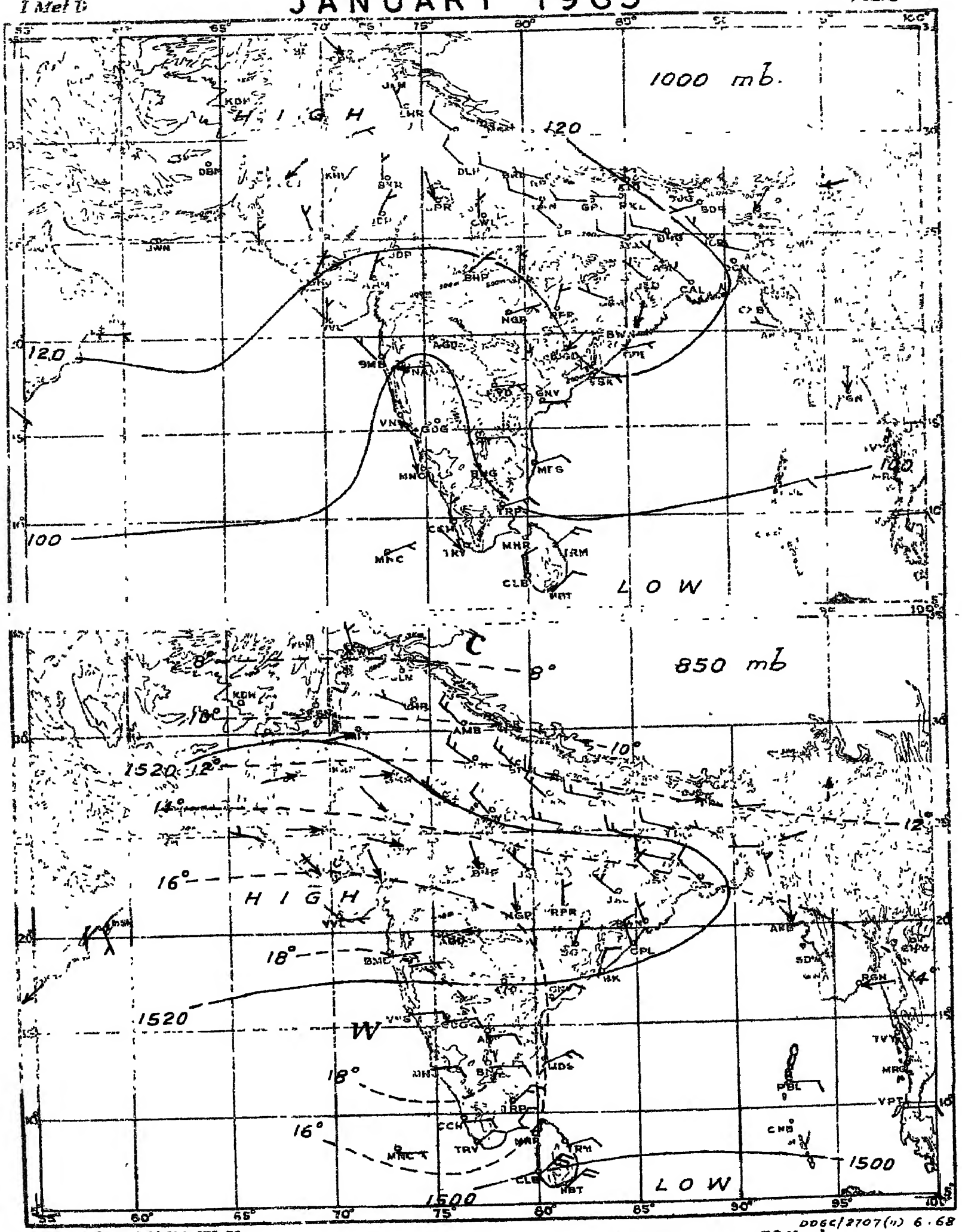
GIPN—S5—4 D.D.G. Obs. Poona/68—10-2-69—250.

MONTHLY MEAN CONSTANT PRESSURE CHART

JANUARY 1965

I Met D

Plate I



G.P.Z.P POONA-Yd-124-278 68

DDGC/2707(11) 6·68

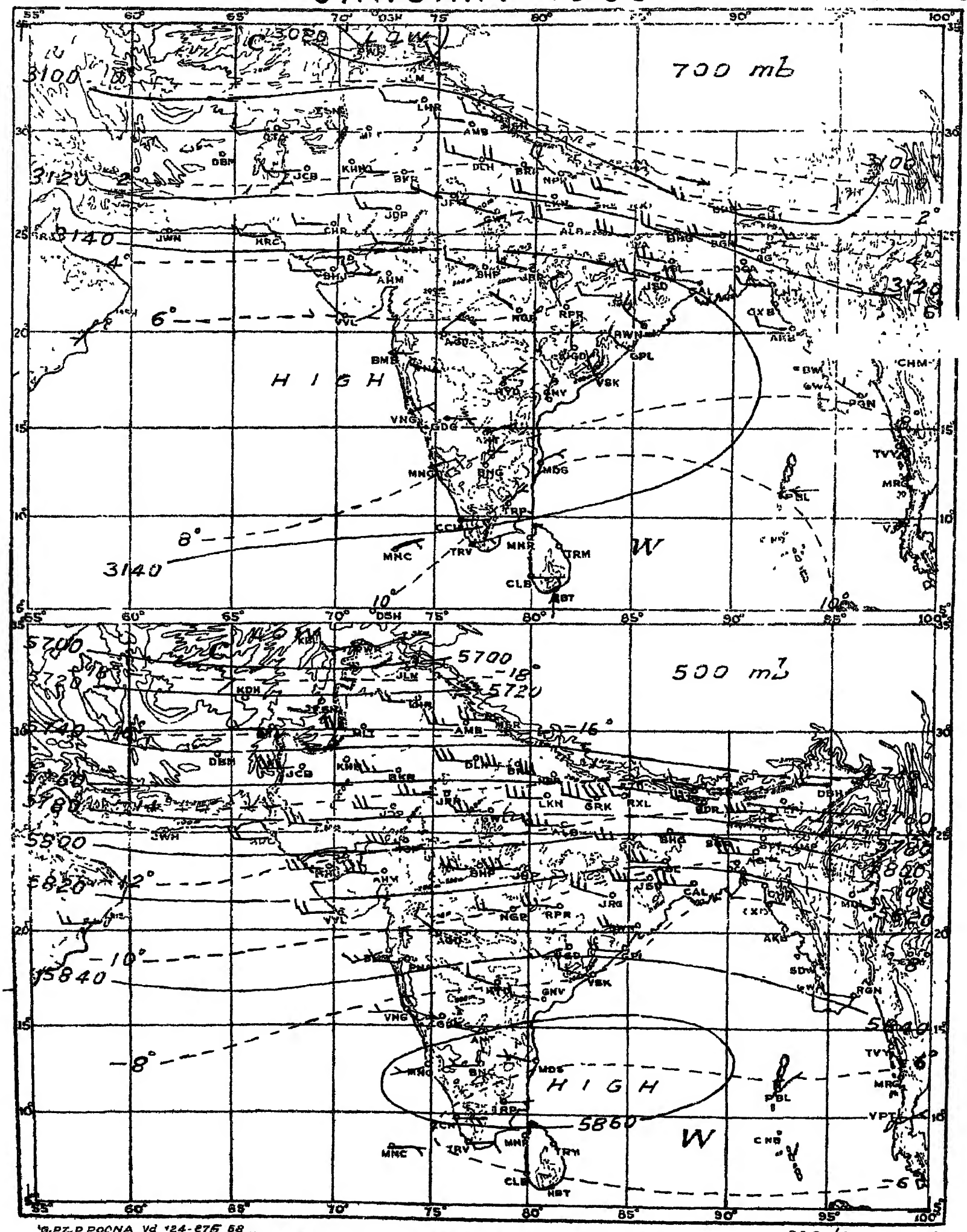
RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots

---------- Isotherms in degrees centigrade ———— Contours in geopotential metres

G.P.Z.P. POONA, 1965

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I Met.D. **JANUARY 1965** Plate II



G.P.Z.P POONA Vd 124-675 68

DDGC/2707 6 68

RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

---------- Isotherms in degrees centigrade ———— Contours in geopotential metres.

G.P.Z.P POONA, 1965

Registered No. MH-75

INDIA WEATHER REVIEW, 1965

Monthly Weather Report

February

Published by authority of the Government of India

Chief features:

(i) Movement of three western disturbances across north India causing spells good of precipitation;

and (ii) Mainly dry weather over the Peninsula except for one spell of rains during the second week.

A western disturbance which lay over Afghanistan on 1st moved into northwest Rajasthan and adjoining parts of West Pakistan on 3rd. It became well marked on 4th and moved away slowly eastwards across the Western Himalayas by 7th. Under its influence, there was good precipitation in the Western Himalayas and the plains of the Punjab and Uttar Pradesh during the first week. Dehra Dun recorded 7 cm of rain and Joshimath and Tehri 5 cm each on 5th.

Another western disturbance which moved eastwards from Baluchistan became well marked over Rajasthan on 12th. Moving further eastwards, it became unimportant over Uttar Pradesh by 14th. This was followed by another western disturbance which moved into West Pakistan on 16th. It moved eastwards progressively and crossed Assam by 22nd. Under the influence of these two disturbances, a spell of good precipitation occurred over most parts of northwest India and Uttar Pradesh during the period 11th to 21st. Some of the noteworthy amounts of rainfall recorded were : Dalhousie, 6 cm, Joshimath, Chandigarh, Dharmsala and Jaipur 4 cm each on 13th, Banihal 6 cm on 17th, Mandi 12 cm and Joshimath 5 cm on 18th and Ambala 11 cm and Dalhousie. Dharampur and Askote 4 cm on each on 19th. According to press reports, the heavy snowfall caused dislocation in telecommunication in Simla and Mussoorie areas and suspension of air services to Srinagar. A few showers also occurred in the central parts of the country on 13th—14th and 21st.

A well marked trough of low pressure extending from north Assam to east Uttar Pradesh developed on 4th and persisted till 9th. In association with it, there was good rainfall over the northern parts of northeast India during this period. The rainfall activity increased on 7th and 8th when it is also extended to the southern parts of the area and to coastal Andhra Pradesh. Some of the noteworthy amounts of rainfall recorded were : Silchar 7 cm on 5th, Haflong 5 cm on 6th, Sagar Island 7 cm on 7th and Kailashahar 7 cm on 8th. Another spell of rainfall occurred over northeast India from 20th to 22nd in association with the movement of the last western disturbance mentioned earlier.

Two troughs in the low level easterlies moved westwards across the Comorin area during the period 10th to 18th. Of these, the second one was quite active and caused a number of showers in the Madras State. Otherwise the weather remained mainly dry over the Peninsula.

Night temperatures were generally above normal over north India during the first week and over Uttar Pradesh and central parts of the country during the period 12th to 14th. They were also above normal in the central parts of the country and most parts of the Peninsula from 4th to 7th. Night temperatures remained mostly below normal over the country after the first week, particularly over north India where they were appreciably to markedly below normal on a number of days during the last week.

The total rainfall for the month was in large excess in south Assam and east Rajasthan, in moderate excess in Gangetic West Bengal and the Punjab and in slight excess in north Assam, Sub-Himalayan West Bengal, west Uttar Pradesh and the Arabian Sea Islands. It was normal in the Bay Islands and Madras State, in slight defect in Orissa and in moderate defect in Jammu and Kashmir, Vidarbha and coastal Andhra Pradesh. It was in large defect over the rest of the country outside Gujarat State, Konkan and coastal and north Interior Mysore where there was no rain.

1—5 D.D.G.(Obs.P./68

The mean maximum temperature was above normal in the Bay Islands, Bihar State, Uttar Pradesh, Rajasthan and Saurashtra and Kutch and below normal in south Assam. It was normal over the rest of the country.

The mean minimum temperature was below normal in Bihar Plateau and normal over the rest of the country.

The mean relative humidity in the morning was above normal in Saurashtra and Kutch and below normal in Bihar State, west Rajasthan and east Madhya Pradesh. It was normal over the rest of the country.

The mean cloud amount in the morning was above normal in the Bay Islands, Punjab, Madras State, south Interior Mysore, Kerala and the Arabian Sea Islands and normal in south Assam, Sub-Himalayan West Bengal, Orissa, Jammu and Kashmir, Konkan, Madhya Maharashtra, coastal Andhra Pradesh, Rayalaseema and coastal and north Interior Mysore It was below normal over the rest of the country.

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud amount for the 15 chief political divisions and 32 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. I. S. T. of the date noted in the succeeding column similarly the heaviest rainfall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. I.S.T. of the date given in the succeeding column.

POONA 5,

the 25th September, 1967

R. ANANTHAKRISHNAN,

for DIRECTOR GENERAL OF OBSERVATORIES

NOTE : Description in respect of Himachal Pradesh is not included for want of normals.

TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS—FEBRUARY 1965 (MAGHA 12—PHALGHUNA 9, 1886 SAKA)

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1 Assam (Including NEFA, Nagaland Manipur & Tripura)	63·9	169	24 8	11·9	79	60	2 5	2 4
	+26 2		0	0	+1		—0 8	
2 West Bengal .	30 1	133	28 7	14 4	65	47	1 2	1 2
	+7 5		+0 7	—0 1	—5		—0 7	
3. Orissa . .	21 4	82	30 4	16 9	69	52	1 6	1 7
	—4 7		+0 4	—0 5	—1		—0 3	
4. Bihar . .	6 2	26	27 8	11 4	60	41	1 1	0 9
	—17 6		+1 5	—1 0	—7		—0 8	
5. Uttar Pradesh	13 6	66	26 4	10 0	67	38	1 3	1·6
	—7 1		+1 3	—0 3	—2		—0 6	
6 Punjab (India) (Including Himachal Pradesh and Delhi)*	35·2	130	22 8	8 2	75	49	2 9	2 8
	+8 2		—0 3	—0 1	+4		+0 5	
7. Jammu and Kashmir	69 4	73	9 5	—0 8	74	63	5·0	4·7
	—25 9		+0 3	+0 1	+5		+0·1	
Sub-division								
1. Bay Islands .	25 9	92	31 5	22·0	68	75	3 6	3 3
	—2·3		+1 8	+0 6	—3		+0 7	
2 North Assam (Including) NEFA	45 1	118	24·8	12·5	81	61	2 5	2 7
	+6·8		+0 5	+0·3	+1		—1 2	
2 South Assam (Including Nagaland, Manipur and Tripura)	101 7	277	24 8	10 2	74	57	2 5	1 9
	+65·0		—1 3	—0 8	+2		+0 1	
4. Sub-Himalayan West Bengal	17 5	114	26 8	12·1	70	46	1 4	1 3
	+2 2		+0 9	+0·3	—4		—0 3	
5. Gangetic West Bengal	34 7	137	29 2	15 1	64	48	1·1	1 2
	+9 4		+0 7	—0 2	—5		—0 9	
6. Orissa . .	21 4	82	30 4	16 9	69	52	1 6	1·7
	—4 7		+0 4	—0 5	—1		—0 3	
7. Bihar Plateau .	14 0	38	27 9	11 6	58	37	0 7	1 4
	—22 9		+1 1	—1 3	—7		—1 3	
8. Bihar Plains .	1 9	11	27 7	11 3	62	45	1 4	0 8
	—14 7		+1 8	—0 7	—8		—0 4	
9. Uttar Pradesh (East)	0 5	3	27 2	10 6	65	35	1·1	1 5
	—16 3		+1 3	—0 2	—4		—0 6	
10. Uttar Pradesh (West)	31·7	121	25 3	9 0	70	42	1 6	1 8
	+5 6		+1 2	—0 4	+1		—0 7	
11. Punjab (India) (Including Delhi)	35 2	130	22 8	8 2	75	49	2·9	2·8
	+8 2		—0 3	—0 1	+4		+0·5	
12. Himachal Pradesh.	94 8	..	21 3	7 2	85	49	1 9	2 5
	..		..	..	..		.	
13. Jammu and Kashmir.	69 4	73	9 5	—0 8	74	63	5 0	4 7
	—25·9		+0 3	+0 1	+5		+0·1	
14. Rajasthan (West)	0 7	11	27·6	10 2	51	23	0 7	0 9
	—5 5		+1·2	—0·3	—7		—1 3	
15. Rajasthan (East)	9 4	184	27 7	11 2	52	25	0 9	0·7
	+4 3		+1 3	+0 2	+2		—0 8	
16. Madhya Pradesh (West)	0 6	8	28 8	11 6	48	26	0·7	0 9
	—6 5		+0·4	—0·3	—3		—0 8	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—(*Contd*)								
8. Rajasthan	5 0	89	27 6	10 8	52	24	0·8	
	—0 6		+1 3	0	—2		—1 0	0 8
9. Madhya Pradesh	1 8	13	29 0	12 2	52	29	0 7	
	—11 8		+0 5	—0 1	—5		—0 8	1 0
10. Gujarat State (Including Diu, Daman, Dadra & Nagar Haveli)	0	0	31 1	15 2	61	36	0 4	
	—1·7		+1 0	+0 8	+4		—0 7	0·2
11. Maharashtra State (Including Goa)	2 1	51	31 9	16 5	53	32	0 8	1·1
	—2·0		+0 1	+0 2	—1		—0 3	
12 Andhra Pradesh	3 3	35	32 3	19 2	69	43	1 7	1 9
	—6 2		0	—0 2	0		—0·3	
13. Madras State (Including Pondicherry)	15 2	97	30 9	21 5	76	59	4 3	4·4
	—0 5		—0 4	+0 3	—2		+1 5	
14. Mysore . .	0	0	31 3	18 0	65	37	1 8	2 4
	—3 8		—0 5	0	+1		+0 2	
15. Kerala . .	4 9	34	31 7	23 1	75	66	3·7	4 0
	—9 6		+0 3	—0 3	—2		+1 1	
Sub-division—(*Contd*)								
17. Madhya Pradesh (East)	3 3	15	29 2	13 0	56	32	0 8	1·2
	—18 5		+0 5	0	—7		—0 9	
18 Gujarat Region	0	0	32 7	15 0	53	22	0 5	0 1
	—1 5		+0 7	+0 8	—4		—0 5	
19. Saurashtra and Kutch	0	0	30 1	15 3	66	43	0 4	0 3
	—1 8		+1 1	+0 7	+8		—0 9	
20. Konkan . .	0	0	30 1	19·9	70	63	1 2	0 7
	—0 8		+1 0	+0·8	+1		0	
21. Madhya Maharashtra	0 1	5	32 4	14 2	50	23	0·8	1·2
	—1 8		—0 3	—0 1	+1		—0·1	
22 Marathwada	1·1	21	31 8	15 8	39	17	0·5	1·3
	—4 1		—0 5	+0 3	—3		—0·5	
23. Vidarbha . .	6·9	70	31 8	16 2	46	23	0 6	1·2
	—3·0		—0 3	—0 1	—5		—0 9	
24 Coastal Andhra Pradesh	6 7	56	31 5	20 3	76	57	2 2	2 3
	—5 2		+0 1	—0 1	—1		—0.2	
25. Telangana .	0 2	2	32 9	17 6	61	28	1 2	1·1
	—8·7		+0 3	—0 4	—2		—0 8	
26. Rayalaseema .	0 5	10	33 3	19 5	63	35	1 2	2·2
	—4 6		—0 8	0	+4		0	
27 Madras State (Including Pondicherry)	15·2	97	30 9	21 5	76	59	4 3	4·4
	—0 5		—0 4	+0 3	—2		+1 5	
28. Coastal Mysore	0	0	31 8	20 6	73	64	2·2	1·9
	—0 9		+0 7	—0 2	—3		+0 2	
29. Interior Mysore (North)	0	0	32 0	17 9	56	29	1 1	1·9
	—5 2		—0 6	—0 1	+2		+0 1	
30. Interior Mysore (South)	0 1	3	30 5	17 0	68	32	2·4	3·2
	—3·9		—0 9	+0 1	+2		+0 4	
31. Kerala . .	4 9	34	31 7	23 1	75	66	3·7	4 0
	—9 6		+0 3	—0 3	—2		+1·1	
32. Arabian Sea Islands	11 0	111	31 1	23·3	77	65	4 5	4·8
	+1 1		+0 7	—0.7	+3		+1 7	

NOTE :—The entries in the second line for each division and sub-division indicate departures from normal.

*Data of Himachal Pradesh is not included.

Sub Division and station	Air temperature in °C								Rainfall in millimetres					No of rainy days (2 5 mm or more)		Wind speed, km. per hour			Weather phenomena—No of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0 1 and 0 2 mm	Precipitation (0 3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	30 2		32 5	23	22 7		20 9	16	30 6	31 2	..	19 4	28	2		10 5	7 1	.	0	3	0	0	4	0	0	0	0	0	0
Long Island	30 0		31 5	24	21 5	.	17 8	16	17 6	16 4		16·4	28	1	.	7 4	3 8		0	1	0	0	0	0	0	0	0	0	0
Port Blair	31 5	+1 8	32 6	24	22 0	+0 6	19 7	16,22	17 4	24 9	−2 3	25 8	28	1	−1 0	8 3	6 3	−5 1	1	1	0	0	1	6	0	0	0	0	0
Car Nicobar	30 2		31 1	25	23 5		17 3	20	0	31 7		16·2	26	3		9 3	5 8	.	0	3	0	0	1	0	0	0	0	0	0
Nancowry	32 9		34 0	19	24 7	.	21 9	7,27	3 0	44 4	.	35 6	27	2		0 6	0 3		0	4	0	0	1	0	0	0	0	0	0
Kondul					25 6	.	23 2	27	42 0	111 4		78 2	27	5			.		0	5	0	0	2	0	0	0	0	0	0
North Assam (Including NEFA)																													
Passighat	23 2	..	27 3	27	12 3		10 1	10	41 6	120 7	.	48 2	7	7	.	9 3	13 7	.	1	11	0	0	6	0	0	0	0	0	0
Dibrugarh (Mohanbari)	24 0	+1 2	27 4	27	9 8	−1 6	6 6	11	18 9	90 5	+28 5	25 9	6	7	+0 8	5 7	3 5	+0 2	0	11	0	1	10	0	0	0	0	0	0
Digboi	24 6		27 0	28	10 5		7 8	19	10 3	40 1		10 5	7	5					0	10	0	0	0	0	0	0	0	0	0
North Lakhimpur	23 8	+0 4	27·2	27	10 3	+1 4	6 4	12	18 1	49 3	−4 9	20 0	7	6	−0 2	6 0	3 4		0	11	0	0	5	0	0	0	0	0	0
Sibsagar	24 1	+1 3	26 7	15,27, 28	12 5	+0 5	9 1	12	18 6	56 7	+5 4	11 4	8	7	+1·8	4 0	3 4	+0 5	1	11	0	0	9	16	0	0	0	0	0
Gohpur	24 2	.	27 5	28	11 2		7 4	13	4·7	69·9		28 4	5	6		5 4	4 1	..	0	8	0	0	3	0	0	0	0	0	0
Majbat	24 9	.	28 5	28	14·5	.	10 9	27		76 6								.		.	0	0	0	0	0	0	0	0	0
Jorhat (Aerodrome)	24 6	..	28 0	28	12 0	.	8 9	12	45 6	70 8		14 3	8	8					0	8	0	0	8	4	0	0	0	0	0
Tangla	26 4	.	29 2	27	11 0	.	8 3	11,12, 13	0	171 2		60 3	7	4		1 1	1 7		0	4	0	0	0	0	0	0	0	0	0
Tezpur	25 2	−0·5	28 5	27	13 5	+0 2	11 3	13	13 0 (d)	51 1 (d)	+23 7	15 8	5	6	+3 3	5 6	4 1	+0 4	0	7	0	0	0	0	0	0	0	0	0
Golaghat	25 0	.	28 1	24	12 1	..	7 9	13	9 0	53 8	.	14 8	5	5	.			.	0	6	0	0	0	0	0	0	0	0	0
Rangia	26 1		29 8	27	11 6		9 5	17,25	(e) 3 3	56 8	.	24 0	7	5		6 1	4 2		0	5	0	0	3	0	0	0	0	0	0
Chaparmukh	26 2		30 0	28	12 9	.	9 8	23,27	(d) 10 6	30 2		9 3	20	3		(d) 6 8	5 1		0	6		0	0	0	0	0	0	0	0
Goalpara	24 7		28 4	2	11 3		5 5	17,18	0	32 4		24 6	7	2					0	4	0	0	0	0	0	0	0	0	0
Gauhati	23 4	−2 2	25 2	4days	14 6	−0 7	10 1	9		6 1	−23 6	3 0	4	1	−1 6		.		0	3	0	0	0	0	0	0	0	0	0
Gauhati (Bhorjor)	25 4	−0 2	28 3	28	11 5	+1 3	8 5	25	9 8	39 0	+9 3	10 0	7	5	+2 4	6 1	3 8		1	5	0	1	4	4	0	0	0	0	0
Dhubri (Rupsi)	26 6		30 1	20	11 1		7 0	24	15 7	20 2		16 5	20	1		8 3	6 1		0	3	0	0	3	2	0	0	0	0	0
Dhubri	26 1	+1 1	29 7	28	17 5	+4 1	15 0	1	0	6 5	−12 3	2 4	8	0	−1 5	6 8	8 0	+2 4	0	3	0	0	2	0	0	0	0	0	0
Lumding	26 7	+1 6	30 0	3	10 2	0	6 9	25	26·7	61 6	+28 3	17 4	4	5	+2 0	5 3	3 0		0	6	0	0	0	0	0	0	0	0	0
South Assam (Including Naga land, Manipur, Tripura)																													
Tura	26 1		28 2	14,15	9 1	.	5 6	24	10 9	12 2		10 8	8	1		6 2	6 4		0	3	0	0	0	0	0	0	0	0	0
Haflong	22 5		25 3	3	10 8	.	8·2	10	50 8	115 0	+ 76 1	44 2	6	4	+0 7	.		.	0	4	0	0	0	0	0	0	0	0	0
Silchar (Kumbhirgram)	26 4		29 7	3	13 2		10 3	12	44 4	208 8	.	70 8	6	4		7 1	9 0	.	0	5	0	0	4	0	0	0	0	0	0
Silchar	23·8	−3 2	28 4	27	13 7	+0 5	10 6	25	22 6	176 0	+128 0	64·6	5	5	+1·4	3 4	2 1	−0 3	1	5	0	0	3	0	0	0	0	0	0
Imphal (Tulihal)	22 5	−0 3	25 3	22	5 0	−1 5	0 6	25	10 2	86 9	+55 8	40 0	6	4	+1 3	7 5	4 9	−1 8	1	5	0	0	5	1	0	0	0	0	0
Kailashahar	27 3	.	29 9	2	12 2		7 1	25	106 8	124 2	.	66 3	8	3		4 0	2 8	..	1	3	0	2	4	3	0	0	0	0	0
Agartala	28 2	−0 3	31 0	6	12 0	−1·3	7 2	25	6 5	28 8	+0 2	17 1	8	2	+0 3	8 3	4 8	−0 3	0	4	0	1	3	1	0	0	0	0	0
Sub-Himalayan West Bengal																													
Baghdogra	26 0	−0 6	28 5	28	10 0	−0 9	6 4	22	4 2	14 6	+12 3	6 4	7	3	+2 8	10 3	7 5	+2 7	1	3	0	0	3	1	0	0	0	0	0
Jalpaguri	26 4	+1 5	31 9	1	12 9	+0 8	9 5	24	15 2	22 0	+5 0	14 6	20	2	+0 6			.	0	2	0	1	2	0	0	0	0	0	0
Cooch Behar	26 0		28 2	28	10 9	.	7 6	24	2 8	9 7	−10·9	6 7	20	1	−0 8	6 3	3 3	..	0	3	0	0	3	4	0	0	0	0	0
Balurghat	28 5		30 4	20	11 6		8 1	24	1 0	3 1		1 8	7	0	.	4 8	3 1		0	2	0	0	0	0	0	0	0	0	0
Malda	28 1	+1 8	30 6	20	13 3	+1 0	10 3	16	10 0	23 5	+2·4	13 2	20	2	+0 3	3 5	2 0	−2 7	0	3	0	0	2	0	0	0	0	0	0
Gangetic West Bengal																													
Berhampore	28 9	+1 4	31 5	5	13 5	−0 1	10 9	26	4 0	11 2	−9 9	4 0	9	3	+1 3	4 2	2 2	−0 2	0	4	0	0	1	17	0	0	0	0	0
Suri	28 9	..	33 1	6	13 8	..	10 2	10,11		39 0	.	21 5	19	4	.		4 1	..	0	5	0	0	0	0	0	0	0	0	0
Asansol	29 5	+1 6	34·5	6	12 8	−1 3	8 7	16	21 8	38 1	+6·4	26 0	20	2	−0 5	8·0	4 8	−1 0	0	5	0	0	0	3	0	0	0	1	0
Shanti Niketan	29 0	..	32 8	6	13 8	..	10 6	12,16	8 5	32 1		14 6	20	4		5 8	4 6	.	0	5	0	0	4	1	0	0	0	1	0
Krishnanagar	30 5	+2 3	33 0	5,6	13 5	+0 9	9 4	16,17	0 3	18 5	−10 7	14 0	20	1	−0 8	4 7	2 9	+0 2	0	4	0	0	3	0	0	0	0	0	0
Purulia	28 5	−0 5	32 5	5	13 6	−1 7	10 4	25	18 4	32 8	+19 7	19 4	21	3	+1 5	6 0	3 7	0	0	3	0	0	2	0	0	0	0	0	0
Bankura	30 0		34 3	6	15 0		12 0	16	0	36 2	+7 2	26 6	20	3	+0 9	4 1	2·4		0	3	0	0	0	0	0	0	0	0	0
Burdwan	29 9	+1 4	33 5	6		..		.	0	20·2	−13 3	12 0	20	3	+1 0	5 3	3 6	+1 2	0	4	0	0	0	0	0	0	0	0	0
Barrackpore, (Aerodrome)	28 0	.	30·0	19	14 2	.	10 2	13,16, 25	0	16 5		10 0	20	2	.	.		..	0	3	0	0	4	6	0	0	0	0	0
Calcutta (Dum Dum)	29 6	+0 4	32 5	5	15 0	−0 2	11 4	17,25	6 4	28 2	+12 1	13 0	20	4	+2 5	7 1	4 5	−0 6	0	5	0	0	4	7	0	0	0	0	0
Calcutta	29 6	+0 9	32 5	5,6	16 3	+1 1	12 9	13	4 4	33 7	+4 0	19 8	21	3	+1 2	7 4	4 3	+0 1	0	4	0	0	3	2	0	0	0	0	0
Midnapore	29 8	+0 1	34 4	6	15 7	−0 5	12 8	17	0 2	21 4	−12 9	11·2	20	2	0	6 6	4·6	+1·5	0	2	0	0	2	0	0	0	0	0	0
Contai	28 9	−0.5	31 3	5	17 0	−0 5	14 0	17	0	37 6	+26 6	32 0	7	2	+1 3	9 1	5·6	−1 1	0	3	0	0	0	2	0	0	0	0	0
Sagar Island	26 9	−0 1	28 5	25	18 9	+0 8	13 4	1	0	103·5	+74 3	68 9	7	2	+0 2	15 0	13 2	+2 4	0	2	0	0	3	13	0	0	0	0	0
Sandheads	28·6	..	31 3	2	21 9	.	16 2	9	0	13 2	−1 0	8 0	7	2	+0 9	..	.	.	0	3	0	0	0	0	0	0	0	0	0
Orissa																													
Baripada	31 2	..	35·7	6	14 9	..	12 3	26	20 8	35 4	.	16 6	7	3		4·7	2 6	.	0	4	0	1	4	0	0	0	0	0	0

(e) Total or mean of 26 days.

(d) Total or mean of 27 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Orissa—(Contd.)																													
Jharsuguda	30 9	+0 3	33 0	20	14 7 (n)	+0 3			2 6	12 4	−11 0	9 1	7	1	−0 5	8 6	7 8	+1 4	1	3	0	0	1	0	0	0	0	1	0
Keonjhargarh	28 6		31 4	20					1 0	30 0		11 0	7	4		7 9	4 7		0	5	0	0	0	0	0	0	0	0	0
Balasore	29 8	+0 5	33 8	5	15 3	−1 1	12 0	17	6 6	32 5	−2 3	20 9	7	3	+0 6	7 9	5 0	+0 8	0	3	0	0	4	0	0	0	0	0	0
Sambalpur	31 2	+1 0	32 8	22	14 5	−0 7	11 4	17	0	0	−23 9	0		0	−2 0	4 3	3 8	−0 1	0	0	0	0	0	0	0	0	0	0	0
Angul	30 6	+0 2	33 3	20	16 1	−0 2	12 6	17	5 7	45 5	+16 8	21 0	20	4	+1 9	5 9	5 6	0	0	4	0	0	3	0	0	0	0	0	0
Chandbali	29 7	+0·2	33 4	7	16 5	−1 1	13 5	1	0	63 8	+30 5	37 0	21	2	+0 2	9 1	6 4	−1 2	1	3	0	0	2	0	0	0	0	0	0
Bolangir	31 5		34 9	20	16 1		13 0	1	0	3 2		3 2	21	1		3 9	4 9		0	1	0	0	2	0	0	0	0	1	0
Phulbani	29 2	.	32 2	20	12 6		7 3	17	14 4	25 9		14 0	23	3		4 6	2 2		0	3	0	0	4	0	0	0	0	0	0
Cuttack	32 3	+1·1	34 8	5	18 5	+0 3	15 3	16	0	20 9	+1 1	9 6	20	3	+1 5	5 6	3 7	+1 3	0	3	0	0	3	0	0	0	0	0	0
Titlagarh	32 1		35 1	20	16 7		13 0	1,17	0	17 4		17 4	7	1		4 0	2 9		0	1	0	1	1	0	0	0	0	0	0
Bhubaneswar	31 5	−0 5	34 7	21	18 0	−0 5	14 9	16, 17	0	7 0	−17 7	5 4	21	1	−0 3	11 5	9 5	−1 5	0	3	0	0	3	0	0	0	0	1	0
Puri	28 2	−0 1	30 0	17	19 2	−1 4	13 3	8	0	9 4	−14 0	9 2	7	1	−0 2	16 0	12 0	−1 7	1	1	0	0	1	0	0	0	0	0	0
Gopalpur	29 2	+0·6	31 3	15	19 4	−0 2	16 3	17	0	1 2	−21 7	1 2	21	0	−1 2	17 2	13 1	+0 9	0	1	0	0	1	1	0	0	0	0	0
Koraput (R)																													
Bihar Plateaus																													
Dumka	29 1	+2 2	33·5	6	13 2	0	9 5	11	1 2	14 1	−9 8	8 5	20	1	−1 0	8 1	4 0	+1 6	0	5	0	0	1	0	0	0	0	0	0
Daltonganj	28 2	+1 6	32 8	5	10 2	−0 9	5 8	25	0	0	−32 3	0	—	0	−2 4	5 6	3 5	−0 4	0	0	0	0	0	0	0	0	0	0	0
Hazaribagh	25 5	+0 4	29 5	5	10 9	−1 4	6 4	10	0 8	3 8	−28 2	2 2	21	0	−2 5	10 7	8 1	−0 8	0	3	0	0	2	0	0	0	0	0	0
Dhanbad	28 7	..	33 0	6	15 2		12 4	10, 11	26 8	26 8	..	13 4	20, 21	2		4 5	3 9		0	2	0	0	4	0	0	0	0	0	0
Ranchi	25 1	+0 2	30 2	6	13 4	+0 6	11 1	26	10 5	39 5	−6 2	15 1	21	3	−0 4				0	3	0	0	1	0	0	0	0	0	0
Ranchi(Aerodrome)	25 6	.	29 5	5	12 7		9 9	25	19 0	69 4		45 0	7	2		11 5	8 3		0	3	0	0	3	0	0	0	0	1	0
Jamshedpur	29 5	+1 0	32·4	5,6	13 5	−0 8	11 1	1	0	12 8	−36 7	7 4	7	2	−1 7	6 5	4 1	+0 4	0	2	0	0	1	19	0	0	0	0	0
Jamshedpur (PBO)	29 0	.	32 6	6	14 0		10 4	26	0 5	22 2	.	11 6	7	2		7 2	4 6		0	3	0	0	4	0	0	0	0	0	0
Chaibasa	29 7	+0 9	32 8	5	13 5	−0 6	10 3	16, 17, 26	5 4	14 0	−23 9	11 8	7	1	−1 5	4 5	2 9	+0 3	0	3	0	0	1	0	0	0	0	0	0
Bihar Plains																													
Motihari	26 6	+1 7	28 9	15,27		..	..		0	0	−15 2	0	..	0	−1 4	6 3	3 6	−0 1	0	0	0	0	0	0	0	0	0	0	0
Forbesganj	27 1	.	29·4	28	9 9	.	5 6	23	0	0 8		0 8	6	0		8 5	5 3		0	1	0	0	0	0	0	0	0	0	0
Darbhanga	27 4	+1 9	29.0	28	11 3	−0 3	8 4	9,10	0	0	−13 5	0		0	−1 4	4 5	3 0	−0 4	0	0	0	0	0	0	0	0	0	0	0
Muzaffarpur		.	.				..			0	−14 5	0		0	−1 7				0	0									.
Chapra	27 2		30·3	20	12 7		9 2	15, 24	0 2	0 2	−17 1	0 2	19	0	−1 6	3 9	2 8		1	0	0	0	0	3	0	0	0	0	0
Purnea	27 7	+1 6	31 1	20	9 0	−1 9	4 5	10	0	1 0	−14 7	1 0	6	0	−1 3	7 6	4 0	+0 6	0	1	0	0	0	0	0	0	0	0	0
Patna	28 1	+2 7	31 0	20	12 9	+0 2	9 8	9,16	0	0 5	−18 3	0 5	20	0	−1 6	7 0	6 2	+1 7	0	1	0	0	0	0	0	0	0	0	0
Patna Aerodrome	27 2		29 7	5	10 8	.	6 9	10	0	0 9	.	0 9	20	0		10 2	4·7		0	1	0	0	2	1	0	0	0	0	0
Arrah						..	.			0	−21 1	0		0	−1 6				0	0			..	..		..		.	..
Bhagalpur	28 6	+1 2	32 4	20	13 5	−0 8	10 2	10	3 2	4 0	+0 5	3 2	20	1	+0 5	8 0	5 3	−1 0	0	3	0	0	3	2	0	0	0	0	0
Sabaur	27 6	+1 9	32 0	20	9 1	−1 7	5 0	24	9 2	10 8	−9 3	9 2	20	1	−0 7	9 0	4 3	−1 3	0	3	0	0	3	1	0	0	0	0	0
Jamui	29 8		32 3	6,7	11 6		9 2	10, 11	0	0 1		0 1	7	0	.	6 3	4 7		1	0	0	0	0	0	0	0	0	0	0
Dehri	28 0		30 8	6	14 1	.	10 4	11	0	2 3	−19 0	2 3	7	0	−1 8	7 6	4 9		0	1	0	0	0	0	0	0	0	0	0
Gaya	27 9	+1·6	2 2	20	11 7	+0 1	7 7	24	0 2	1 8	−19 8	1 4	7	0	−1 8	10 0	6 1	−0 3	2	1	0	0	1	0	0	0	0	0	0
Uttar Pradesh (East) Kheri (R)																													
Bahraich	26 6	+1 6	29·5	28	10 7	+0 2	7 1	22, 23	0	0	−23 1	0		0	−2 0	8 3	5 4	+2 0	0	0	0	0	0	0	0	0	0	0	0
Nautanwa	27 1	.	29 6	28	5 1		2 6	4 days	0	8 4		8 4	19	1	.	6 1	3 4		0	1	0	0	0	0	0	0	0	0	0
Hardoi	25 9	−0 2	29 1	19	9 3	−1 4	5 0	23	0	0 8	−8 9	0 8	13	0	−1 1	8 5	7 0	+1 6	0	1	0	0	0	0	0	0	0	0	0
Gonda	26 6	+1 0	29 0	28	10 8	0	7 0	23	0	2 1	−21 0	2 1	19	0	−2 3	7 3	4 9	−0 1	0	1	0	0	0	0	0	0	0	0	0
Lucknow	26 0	+0 1	28 2	6	10 5	−0·3	7 0	23	0	0	−18 3	0		0	−1 6	5 0	3·6	+0 9	0	0	0	0	0	0	0	0	0	0	0
Lucknow (Amausi)	26 7	+1 3	29 7	28	8 9	−0 1	5 5	16	0	0 9	−17 4	0 4	19	0	−. 6	13 1	8 4	.	1	2	0	0	2	0	0	0	0	0	0
Faizabad	27 1		30 0	28	10 5		6 2	22	0	0	.	0	.	0		6 0	2 9		0	0	0	0	0	3	0	0	0	0	0
Gorakhpur	27 8	+2 4	30 6	28	12 5	+1 3	9 1	23	0	0 1	−15 9	0 1	20	0	−1 8	7 0	1 7	−1 0	1	0	0	0	0	0	0	0	0	0	0
Kanpur	26 8	+1 8	31 3	19	11 0	+0 4	6 7	16	0	0	−16 8	0		0	−1 6	12 4	10 0	+3 4	0	0	0	0	0	1	0	0	0	0	0
Kanpur (Aerodrome)	27 2	.	30 3	6	10 1		5 7	22	0	1 7		0 9	13	0	.				0	2	0	0	0	0	0	0	0	0	0
Sultanpur	27 1	..	30 5	28	10 1		7 3	22	0	0		0		0	.	7 6	5 1		0	0	0	0	1	0	0	0	0	0	0
Azamgarh	28 1		30 9	5	10 9	.	7 6	24	0	0	.	0	.	0	..				0	0	0	0	0	0	0	0	0	0	0
Fatehpur	27·7	+1 1	30 9	4	9 6	−1 7	5·7	8	0 2	0 5	−17 5	0 3	13	0	−2 4	10 8	6 0	+1 8	1	1	0	0	1	0	0	0	0	0	0
Ballia	27 8		31 0	28	9 3		6·5	24	0	0	.			0		5 8	3 6		0	0	0	0	0	0	0	0	0	0	0
Banda	28 3		32 3	5	10 9		6 7	10	0	0	.	0	.	0		2 8	1 4		0	0	0	0	0	0	0	0	0	0	0
Allahabad (Bamrauli)	28 5	+2 3	31·6	5,6	11 4	+0 9	7 4	24	0	0 8	−15 2	0 8	7	0	−1 7	5 9	2 9	−2 2	0	1	0	0	2	0	0	0	0	0	0
Varanasi (Babatpur)	28 2	+0 9	31 0	19	9 8	−1 8	6 1	10	0 2	0 4	−7 5	0 4	7	0	−0·8	12 5	7 6	−1 5	0	1	0	0	0	0	0	0	0	0	0
Varanasi	28 1	+1 8	31·5	19	11 9	+0 7	7 8	11	0	0	−18·0	0	.	0	−1 9	7 2	5 8	+1 3	0	0	0	0	0	0	0	0	0	0	0

(n) Mean of 17 days.

(R) Register not received.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No of rainy days (2·5 mm or more)		Wind speed, km per hour			Weather phenomena—No of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830–1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830–1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm)	Precipitation (0·3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Uttar Pradesh (West)																													
Mukhim	11·7		18·7	3	3·5		0·2	4 days					..								5	1	4	1	0	0	0	0	0
Tehri	20·5		26·5	3	6·3	.	3·9	22	39·5	149·3		50·3	5	8		2·3	1·1		1	9	0	0	3	1	0	0	0	0	0
Dehra Dun	20·9	+0·2	24·8	3	7·1	−1·0	3·8	22	31·7	158·2	+95·5	67·8	5	6	+2·2	3·9	3·7	+1·0	0	8	0	2	4	0	0	0	0	0	0
Mansiari	9·4		15·3	27									.								9	2	0	0	0	0	0	0	0
Roorkee	23·2	+0·7	27·0	3,28	8·1	−0·2	5·8	24,25	19·8	43·5	+4·9	17·8	14	4	+1·2	7·5	5·1	+1·6	0	5	0	0	5	0	0	0	0	0	0
Najibabad	24·2		27·7	25,26	7·0		3·5	24	0	13·8		13·8	13	1		4·1	6·6		0	1	0	0	6	0	0	0	0	0	0
Meerut	25·0	+1·5	29·0	3	8·3	−0·6	4·1	4		5·0	−20·9	5·0	13	1	−1·2		8·7		0	1	0	0	0	0	0	0	0	0	0
Bareilly	25·6	+1·7	28·7	28	10·4	+0·3	6·7	23	0·4	20·0	−4·6	11·0	19	2	+0·1	9·8	7·3	+4·1	0	2	0	0	4	4	0	0	0	0	0
Aligarh			..		8·8	−1·5	4·4	22		11·4	−7·9	11·0	13	1	−1·1	12·0	8·6	+3·0	0	2	0	0	2	0	0	0	0	0	0
Mainpuri	28·1	+2·7	32·0	4	..			..	0	4·8	−8·9	4·8	13	1	−0·2	8·3	4·4	+1·7	0	1	0	0	2	0	0	0	0	0	0
Agra	25·8	+0·6	31·5	4	10·0	+1·0	5·8	23	0	9·0	−3·5	9·0	13	1	−0·1	5·1	4·1	−1·0	0	1	0	0	0	0	0	0	0	0	0
Agra (Aerodrome)	26·1	.	31·3	4	8·8	.	3·8	24	0	12·7		12·7	13	1					0	1	0	0	2	0	0	0	0	0	0
Orai	27·0		32·1	21	10·9		7·0	22	2·0	2·0		2·0	13	0	.				0	1	0	0	0	0	0	0	0	0	0
Jhansi	28·2	+1·0	33·6	4	10·6	−0·8	6·5	24	0	1·3	−10·1	1·3	13	0	−1·1	4·8	5·0	+0·7	0	1	0	0	0	0	0	0	0	0	0
Punjab (India) (Including Delhi)																													
Pathankot	20·5	−1·7	24·4	28	6·3	−2·1	1·4	22	20·9	65·0	+23·1	30·1	13	6	+3·7				0	6	0	1	4	0	0	2	0	0	0
Bhuntar	15·2		22·3	1	3·1		0·5	22	78·8	185·5		32·4	19	12		5·7	4·8		0	14	0	1	7	0	0	0	0	0	0
Amritsar (Rajasansi)	21·8	−0·3	26·4	27	6·4	+0·1	2·1	21	1·8	16·7	+0·8	11·1	13	1	−0·6	10·9	8·1	+0·2	0	5	0	0	6	1	0	0	0	0	0
Adampur (Aerodrome)	21·9	.	25·5	27	5·6		−0·2	21	5·6	37·8		23·1	13	3					0	5	0	0	5	3	0	0	0	0	0
Ludhiana	23·1	+1·3	27·6	27	8·2	−0·4	2·8	21	3·3	36·9	+2·6	24·2	13	2	−0·7	7·1	5·1	+2·4	0	4	0	0	3	0	0	0	0	0	0
Ferozepur	21·6		25·0	27	7·6		2·7	23	0	9·0		9·0	13	1		4·7	4·1	.	0	1	0	0	0	7	0	0	0	0	0
Halwara (Aerodrome)	21·5	.	25·3	27	6·6		1·9	21	1·0	42·1		22·9	19	3					0	3	0	1	4	2	0	0	0	0	0
Chandigarh	22·6	−0·8	26·5	27	10·3	+1·4	7·2	9	1·5	80·7	+55·2	44·4	13	3	+1·4				0	5	0	0	0	0	0	0	0	0	0
Ambala (R)		.	.												.										.				.
Ambala (Aerodrome)	22·7		26·7	28	8·4		3·1	21	0	41·4	−10·1	27·8	13	3					0	3	0	0	6	0	0	0	0	0	0
Patiala	23·4	..	27·3	27	9·4		4·3	21	0	26·0		19·2	13	2	−0·7	11·9	10·3		0	3	0	0	2	0	0	0	0	0	0
Bhatinda	23·4		27·4	27	7·0		1·4	21	0	0		0		0		3·7	4·9		0	0	0	0	0	0	0	0	0	0	0
Karnal	22·7		26·0	3,28	.				0	36·0		30·0	13	2					0	2	0	0	0	0	0	0	0	0	0
Hissar	24·8	+0·2	29·1	5	8·3	−0·1	2·4	23	0	12·1	−1·6	8·3	13	1	−0·2	9·1	8·0	+1·7	0	3	0	0	0	2	0	0	0	0	0
New Delhi (Safdarjang)	23·8	−0·5	29·0	3	9·6	+0·2	6·1	23	0·7	8·7	−12·4	6·0	13	2	+0·3	17·3	11·6	+1·0	0	2	0	0	3	0	0	0	0	0	0
Palam (Aerodrome)	24·2		28·9	5	8·4		3·0	23	0	9·5		7·0	13	2	.			.	0	2	0	0	2	0	0	0	0	0	0
Himachal Pradesh																													
Mandi	19·1	−2·2	24·5	27			..	..	28·7	103·9	+73·8	31·6	19	8	+5·5	2·6	1·9	−0·6	0	8	0	0	3	3	0	0	0	0	0
Bilaspur	23·6		28·0	28	7·2		1·4	28	20·0	85·7		26·5	13	6	.	2·6	2·6		0	8	0	0	0	0	0	0	0	0	0
Jammu and Kashmir																													
Misgar (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras*																													
Sonamarg			.				.	..	..	105·1	−131·9	20·5	4	7	−2·9	.	.	.	0	15	.							.	.
Leh	1·5	+0·9	6·0	1	−11·0	+1·1	−17·4	22	0	4·2	−3·7	4	3	1	+0·1	5·3	5·6	+3·3	0	1	4	0	0	0	0	0	0	0	0
Srinagar	6·1	−0·6	9·4	8,28	0·1	+1·5	−1·6	8,20	38·6	101·1	+29·0	20·5	5	10	+3·8 (1)	5·7	5·4 (1)	+1·5	0	14	6	0	1	0	0	0	0	0	0
Srinagar (Aerodrome)	5·6	..	9·0	28	−0·6		−3·9	23	33·3	98·8		20·9	5	10	.				0	12	7	0	1	1	0	0	0	0	0
Gulmarg	Closed during winter Months																												
Qazigund	6·3	.	9·8	28	−1·5		−7·1	21	101·5	256·5	.	55·4	19	11		2·0	1·6	.	0	15	9	0	3	2	0	0	0	0	0
Banihal	8·7		14·6	1	−0·1		−6·6	20	148·1	358·9		64·2	17	12		..	.		0	15	5	0	5	0	0	0	0	0	0
Jammu	20·8	+0·5	24·8	28	8·4	−2·3	4·5	23	33·5	67·1	+2·8	21·0	19	6	+2·3	6·6	6·8		0	6	0	0	0	0	0	0	0	0	0
Jammu (Aerodrome)	20·1		24·1	27	9·2		4·5	21	28·5	60·3		19·6	19	4					0	5	0	0	5	0	0	0	0	0	0
Rajasthan (West)																													
Ganganagar	24·9	−0·1	30·7	4	6·5	−2·6	3·2	23	0	0	−5·1	0		0	−0·5	5·5	3·6	−0·2	0	0	0	0	0	1	0	0	0	0	0
Anupgarh (R)																													
Mahajan	26·2		32·3	4		.			0	0		0		0	.	10·9	6·7	.	0	0	0	0	0	0	0	0	0	0	0
Churu	26·0	.	32·3	3,4	8·1	.	3·6	24	7·2	7·6		7·2	13	1	.	9·9	7·0	.	0	2	0	1	2	0	0	0	0	0	0
Bikaner	27·8	+1·6	33·4	3	8·3	−0·1	4·1	23,24	0	1·8	−5·1	1·8	18	0	−0·7	3·4	4·5	−1·3	0	1	0	0	0	0	0	0	0	0	0
Nagaur	27·5	.	31·6	2	9·3	..	4·4	8	0·2	0·2	.	0·2	13	0	.	7·8	6·4	..	1	0	0	0	0	0	0	0	0	0	0
Phalodi	27·9	.	33·6	2	9·6	..	5·0	20	0	0	−5·6	0	.	0	−0·6	12·0	9·6		0	0	0	0	0	0	3	0	0	0	0
Jaisalmer	28·2	..	33·0	2	11·2	.	6·6	7	0	0·1	.	0		0		10·2	8·4		1	0	0	0	0	0	0	0	0	0	0
Jodhpur	28·1	+1·1	34·0	2	12·4	+1·0	9·4	23	1·6	1·6	−4·5	1·6	13	0	−0·6	10·6	7·6	−3·3	0	1	0	0	1	0	0	0	0	0	0
Barmer	29·7	+2·3	35·0	3	13·6	+0·5	10·2	23	0	0	−7·1		.	0	−0·6	7·7	6·1	−1·8	0	0	0	0	0	0	0	0	0	0	0

(1) Mean of 21 days.

(R) Register not received.

.. .. *Data not available.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No of rainy days (2·5 mm or more)		Wind speed, kms per hour			Weather phenomena—No of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm)	Precipitation (0·3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Rajasthan (East)—(Contd)																													
Erinpura (Jawai Dam)	29 4		33 5	5	11 6		6 0	22	0 5	1 6	-	1 6	13	0		3 6	3 1 (h)	-	0	1	0	0	0	0	0	0	0	0	0
										0		0	.	0		9 0	6 1	-	0	0	0	0	0	0	0	0	0	0	0
Munabao (R)	37 6		55 0	26					0	0						11 0	8 7		0	1	0	0	-	0	0	0	0	0	0
Pilani	25 7		32 5	5	7 1		2·5	23	0	6 2	..	6 2	19	1	.	4 1	3 2	.	0	2	0	0	0	0	0	0	0	0	0
Sikar . .	25 7		32 3	2	8 2		2 4	7	8 2	12 2		8 2	13	2	.	4 8	2 2	.	0	2	0	0	2	0	0	0	0	0	0
Alwar	25 4		32 2	4	10 8		8 2	23	0	4 6		3 8	13	1					0	2	0	1	2	0	0	0	0	0	0
Jaipur (Sanganer)	26 0	+1 2	31 6	4	10 9	+0 6	5 8	7	29 4	45 7	+37 6	43 1	12	2	+1 2				0	2	0	0	1	0	0	0	0	0	0
Dholpur . .	27 1		32 8	4	9 3	.	3 4	21	22	2 2		2 2	13	0		7 5	4 6		0	1	0	0	1	0	0	0	0	0	0
Ajmer . .	26 8	+1.8	31 4	2	9 9	0	6 5	23	0	0 2	−6 4	0 2	18	0	−0 7	8 6	5 5	+2 1	1	0	0	0	1	0	0	0	0	0	0
Tonk	27 8		33 7	4	10 2		5 9	23	0	0		0		0		7 2	6 0		0	0	0	0	0	0	0	0	0	0	0
Bhilwara	27 3		32·2	4	10 4		7 8	10, 21	0	0		0		0	.	8 9	5 9		0	0	0	0	0	0	0	0	0	0	0
Kota	29 1	+1 3	34 6	23	13 8	+0 8	8 6	9	0	0	−5 3	0		0	−0 5	6 3	3 5	+0 8	0	0	0	0	0	0	0	0	0	0	0
Kota (Aerodrome)	28 4		34 0	4	13 0		9 0	24	0 6	0 6		0 6	6	0		10 7	7 8	.	0	1	0	0	1	0	0	0	0	0	0
Chambal (Rawat Bhatta Dam)	28 5		33 4	4	12 2		8 6	9,21	0	0		0		0		9 1	6 0		0	0	0	0	0	0	0	0	0	0	0
Udaipur	27 4	+1 1	32 9	3	10 0	−0 3	7 0	8	0	0	−3 6	0		0	−0 5	4 7	2 4		0	0	0	0	0	0	0	0	0	0	0
Jhalawar	29 0	+1 1	33 6	4	11 4	−0 2	8 0	8	0	1 0	−1 0	1 0	6	0	−0 4	7 6	5 0	+0 8	0	1	0	0	0	0	0	0	0	0	0
Banswara	30 7		34 2	4	14 0		10 4	8	0	0		0	.	0		11 1 (b)	8 6 (c)		0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	27 1	+0 2	31 7	4	8 9	−1 0	4 4	24	0 3	0 3	−7 8	0 3	13	0	−0 8	10 5	5 6		0	1	0	0	1	0	0	0	0	0	0
Sheopur	28 2	−0 2	32 4	4	9 9	0	5 2	21	0	0	−5 5	0		0	−0 6	9·2	7 2	+2 1	0	0	0	0	0	0	0	0	0	0	0
Shivpuri	26 9		31 5	4	7 4		1·8	24	0	0		0	.	0		5 3	5 3		0	0	0	0	0	0	0	0	0	0	0
Nowgong	28 5	+1 8	32 9	4 5	9 0	−1 4	4 8	24	0	1 0	−13 5	1 0	13	0	−1 3	6 4	3 4	+0 8	0	1	0	0	0	0	0	0	0	0	0
Guna	27 9	+0 6	32 0	4	9 3	−0 8	5 1	24	0	0	−4 8	0		0	−0 6	11 9	7 6		0	0	0	0	0	0	0	0	0	0	0
Nimach	27 8	+0 7	31 9	3,4	12 1	+1 0	8 2	15	0	0	−3 8	0	.	0	-0 4	11 0	8 0	+0 6	0	0	0	0	0	0	0	0	0	0	0
Rajgarh	29 2		33 0	4,5	10 7		6 0	8	0	0		0	.	0					0	0	0	0	0	0	0	0	0	0	0
Sagar	28 4	+1 1	30 9	4	13 4	+0 2	10·5	9,15	0	3 0	−8 9	2 0	13	0	−1 2	8 8	8 0		0	2	0	0	1	0	0	0	0	0	0
Ratlam	29 2	−0 1	32 8	4	12 2	−0 8	9 0	22	0	0	−1 7	0		0	−0 3	12·1	9 4	+1 2	0	0	0	0	0	0	0	0	0	0	0
Bhopal (Bairagarh)	28 2	0	31 7	4	11 8	−0 8	8 4	8	0	3 2	−0 6	3 2	13	1	+0 5	12 4	10 2	+2 5	0	1	0	0	0	0	0	0	0	0	0
Ujjain	29 2	.	32 6	3	10 1		5 9	9	1 0	1 0		1 0	13	0	.	12 7	8 3		0	1	0	0	1	4	0	0	0	0	0
Narsinghpur	29 7		32 4	5,6,18	9 4		4·8	8	1 0	5 0	.	4 0	13	1		6 6	3 6		0	2	0	0	0	0	0	0	0	9	0
Hoshangabad	30 6	+1 2	32 9	4 days	13 7	−0 5	9 4	9	0 4	1 2	−8 5	1 2	13	0	−0 9	6 9	3 9	+0 4	0	1	0	0	0	0	0	0	0	0	0
Indore . .	28 9	+0 2	32 2	4	11 2	+0 6	7 7	9	0	0	−3 6	0	.	0	−0 5	15 2	11 6		0	0	0	0	0	0	0	0	0	0	0
Rajpur (Jhabua)	30 4		34 0	4	13 0		10 0	9	0	0	.	0		0	.	8 1	4 4	.	0	0	0	0	0	0	0	0	0	0	0
Chhindwara	28 7	−0 2	31 8	27	12 3	−0 4	7 7	9,10	0	0	−5 9	0	.	0	−0 4	8 1	5 1	−0 1	0	0	0	0	0	0	0	0	0	0	0
Seoni	29 2	+0 9	32 0	19	13 2	+0 5	9 6	16	0	0	−20 6	0		0	−2 0	9 5	6 2	+1 7	0	0	0	0	0	0	0	0	0	0	0
Betul	29 3	−0 2	32 7	27	11 7	−0 6	6 7	16	0	0	−2 2	0		0	−0 3	8 0	4 6	−0 6	0	0	0	0	0	0	0	0	0	0	0
Khandwa	31 7	+0 2	34 0	27	13 4	+0 1	8 0	9	0	0	−4 1	0		0	−0 4	11 5	7 7	+2 2	0	0	0	0	1	0	0	0	0	0	0
Madhya Pradesh (East)																													
Satna	28 6	+2 3	32 6	19	11 1	−0 1	7 1	10	0 1	0 3	−19 5	0 2	20	0	−1 8	6 8	4 5	+0 3	2	0	0	0	1	0	0	0	0	0	0
Rewa	28 2		32 6	5	11 6	.	7 4	10	3 9	4 9		4 5	14	1	..	6 3	3 5	.	0	2	0	1	1	0	0	0	0	0	0
Sidhi	29 6	..	32 4	18	9 9		6 3	25	1 2	5 2		5 2	7	1	.				0	1	0	0	0	0	0	0	0	0	0
Umaria	28 7	+1 4	31 9	5	10 6	−0 3	6 4	9	0	0	−25 4	0		0	−1 9	7 9	4 5	+0 5	0	0	0	0	0	0	0	0	0	0	0
Jabalpur	29 2	+1 8	32 4	18	11 6	+1 0	7 3	9	0	1 3	−18 0	1 0	13	0	−1 7	7 5	4 4	+1 7	0	2	0	0	0	0	0	0	0	2	0
Ambikapur	26 6	−0 5	29 2	5	10 7	+0 3	7 2	16	14 2	16 4	−5 8	9 5	7	2	+0 1				0	3	0	2	3	0	0	0	0	0	0
Jashpurnagar	25 4	.	27 3	27	9 4		6 0	26	4 0	21 0	..	18 0	7	1	..	9 3	4 9		0	3	0	0	0	0	0	0	0	0	0
Pendra . .	26 7	+1 1	29 6	20	13 0	+0 5	9 8	10	1 8	2 1	−35 2	1 8	7	0	−2 9	11 1	7 4	..	0	2	0	0	2	0	0	0	0	1	0
Mandla .	28 9	−0 4	30 9	19	10 1	0	6 1	16	2 8	5 2	−10 1	5 2	14	1	−0 7	6 2	3 1	+0 7	0	1	0	1	1	0	0	0	0	0	0
Champa .	30 3	−0 4	32 3	27	13 9	−1 9	10 6	17	0 6	2 8	−10 5	2 2	6	0	−1 2	7 7	3 9	+0 1	0	2	0	0	1	0	1	0	0	0	0
Raigarh .	31 4	−0 5	33 2	20	15 5	−0 4	12 2	17	4 2	7 6	−7 9	5 8	7	1	−0 3	5 7	4 4	0	0	2	0	1	1	0	0	0	0	0	0
Raipur . .	30 2	+0 2	32 8	20	15 7	+0 1	12 4	16	0	0	−22 1	0		0	−1 3	8 4	6 0	+0 2	0	0	0	0	0	0	0	0	0	0	0
Kanker . .	30 2	+0 4	32 4	22	15 2	+0 5	11 6	10, 14	0	0	−21 8	0	.	0	−2·1	6 8	4 8	+0 5	0	0	0	0	0	0	0	0	0	0	0
Jagdalpur	30·9	+0 6	33 3	26	15 1	+0 8	11 4	2	0 6	0 6	+26 8	0 6	15	0	−1·6	6 9	3 7		0	1	0	0	0	0	0	0	0	0	0
Gujarat Region																													
Deesa . .	30 7		35 4	3					0	0		0		0		9 4	7 4		0	0	0	0	0	0	0	0	0	0	0
Radhanpur .	31 0		35·4	3	12 9	.	11 1	24, 25	0	0		0		0	.	9 3	5 7	.	0	0	0	0	0	0	0	0	0	0	0
Idar . . .	30·6		35 0	3	15 0	.	8 9	8	0	0	.	0		0	.	8 6	6 6	.	0	0	0	0	0	0	0	0	0	0	0
Ahmadabad .	31 7	+1 3	35 7	3	13 6	−0·4	10 5	21	0	0	−2·0	0		0	−0 2	9·5	5 5	−1 3	0	0	0	0	0	0	0	0	0	0	0
Dohad . .	30 3	−0 3	33 5	3,27, 28	14 3	+0 1	11 1	22	0	0	−1 7	0		0	−0.2	12 3	11 5	−1 2	0	0	0	0	0	0	0	0	0	0	0
Vallabh Vidyanagar	29 0		36·6	,4	11 5		8 1	21	0	0		0		0	.	9·7	7 6	.	0	0	0	0	0	0	0	0	0	0	0
Baroda (Aerodrome)	32 4		36 2	3	14·2		9 4	21	0	0		0	.	0		9·6	6 7	.	0	0	0	0	0	0	0	0	0	0	0

(R) Register not received

(g) Mean of 24 days,

(h) Mean of 23 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No of rainy days (2·5 mm or more)		Wind speed, kms per hour			Weather phenomena—No of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm)	Precipitation (0·3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Gujarat—contd																													
Baroda	33 5	+0 9	37 5	3	14 8	+2 4	11 1	21	0	0	—1 4	0		0	—0 3	2 4	1 3	—2 3	0	0	0	0	0	0	0	0	0	0	0
Broach	33 6	—0 7	36 9	27	15 0	+0 1	11 7	21	0	0	- 0 3	0		0	—0 1	4 5	3 1	—2 8	0	0	0	0	0	1	0	0	0	0	0
Surat	34 3	+2 4	36 6	1,3,27	17 5	+1 9	14 6	21	0	0	—2 0	0		0	—0 2	9 9	7 7	+2 6	0	0	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch (Including Div)																													
Naliya	30 2		35 8	2, 3	11 5		8 0	20,21	0	0		0		0	—0 4	11 1	6 6		0	0	0	0	0	3	0	0	0	0	0
Bhuj (Rudramata)	30 9	+2 3	35 4	3	13 6	+0 7	8 7	24	0	0	—4 3	0		0		11 2	9 3	0	0	0	0	0	0	1	0	0	0	0	0
Kandla Aerodrome	31 3		35 8	3	14 4		11 3	8	0	0		0		0		18 0	17 3		0	0	0	0	0	0	0	0	0	0	0
New Kandla	28 5		32 8	3	16 8		14 8	24	0	0		0		0	0	13 4	13 7		0	0	0	0	0	0	0	0	0	0	0
Mandvi	27 5	+1 2	33 0	3	15 9	+1 1	12 3	21	0	0		0		0	0	18 4	16 2	—0 2	0	0	0	0	0	3	0	0	0	0	0
Surendranagar	31 6	+0 2	35 7	3	15 8	+1 0	12 1	21	0	0	0	0		0		11 0	9 1	—1 2	0	0	0	0	0	0	0	0	0	0	0
Okha	25 9		28 6	3	20 4		18 6	9	0	0		0		0	—0 2	18 1	18 4		0	0	0	0	0	0	0	0	0	0	0
Jamnagar (Aerodrome)	29 9	+1 1	34 5	3	13 1	+1 1	9 8	16	0	0	—2 0	0		0	—0 5				0	0	0	0	0	1	0	0	1	0	0
Dwarka	28 0	+2 2	34 7	3	18 8	—1 5	16 0	15	0	0	—6 1	0		0	0	15 6	14 5	+0 5	0	0	0	0	0	0	0	0	0	0	0
Rajkot	31 3	—0 2	35 6	3	13 5	+0 7	11 2	16,21	0	0	0	0		0	—0 2	18 5	14 0	+0 4	0	0	0	0	0	5	0	0	0	0	0
Bhavnagar Aerodrome	31 0	+1 5	35 2	3	15 2	+0 5	12 2	22	0	0	—1 5	0		0	—0 1	18 7	16 4	+3 6	0	0	0	0	0	0	0	0	0	0	0
Porbander Aerodrome	30 7	+0 6	36 2	2	16 1	—0 7	12 2	21	0	0	—0 8	0		0		18 0	13 5		0	0	0	0	0	0	0	0	0	0	0
Keshod	32 2		36 2	3	14 0		10 8	21	0	0		0		0		18 1	14 4	.	0	0	0	0	0	2	0	0	0	0	0
Mahuva	32 1		35 7	26,27	16 1		12 0	5	0	0		0		0		9 1	8 6		0	0	0	0	0	0	0	0	0	0	0
Veraval	30 6		35 4	25	16 0		12 9	21	0	0	—1 8	0		0	—0 2	19 5	16 4		0	0	0	0	0	1	0	0	0	0	0
Konkan (Including Goa)																(i)	(f)												
Dahanu	29 0	+0 9	34 0	17	18 5	+1 3	17 0	22,27	0	0	-0 3	0		0	—0 1	15 8	12 1	-0 2	0	0	0	0	0	0	0	0	0	0	0
Bombay (Santacruz)	31 7	+2 3	35 6	3	17 6	+1 9	14 7	22	0	0	—1 7	0		0	—0 1	12 0	7 6		0	0	0	0	0	0	0	0	0	0	0
Bombay	30 2	+1 8	34 6	17	21 0	+1 3	18 7	22	0	0	- 2 0	0		0	—0 1	11 9	9 5	—2 0	0	0	0	0	0	0	0	0	0	0	0
Alibag	29 3	-1 2	33 6	15	19 0	+0 7	16 8	22	0	0	--0 8	0		0	—0 2		8 7	—0 0	0	0	0	0	0	0	0	0	0	0	0
Bhira	36 1	.	39 2	27	15 6		13 1	22	0	0		0		1		4 8	2 7		0	0	0	0	0	0	0	0	0	0	0
Harnai	28 7	+1 0	33 2	16 16	22 8	+0 8	20 6	19	0	0	-0 1	0		0	0	17 6	15 0	+1 1	0	0	0	0	0	0	0	0	0	0	0
Ratnagiri	31 1	.	36 0	15 16	18 9		16 0	6	0	0	—1 0	0		0	—0 1	12 3	7 7		0	0	0	0	0	0	0	0	0	0	0
Devgarh	30 0	+0 2	33 4	16	21 8	+0 2	20 0	6	0	0	—0 1	0	.	0	0	18 2	14 4	+0 2	0	0	0	0	0	0	0	0	0	0	0
Vengurla	31·6	+0 1	37 0	16	18 5	—0 5	15 1	6	0	0	—0 3	0		0	—0 1	(d) 12 0	6 5		0	0	0	0	0	0	0	0	0	0	0
Panjim	32 2		36 5	16	18 6		16 7	7	0	0	.	0		0		12 7	10 2		0	0	0	0	0	1	0	0	0	0	0
Mormugao	30 1	.	36 3	16	21 9		20 1	7	0	0		0		0		(n) 15 5	( ) 12 9		0	0	0	0	0	1	0	0	0	0	0
Dabolim (N A S)	30 8		36 6	16	21 2		19 5	7,9	0	0		0				10 9	7 7		0	0	0	0	0	0	0	0	0	0	0
Madhya Maharashtra																													
Nandurbar	32 9	.	36 6	26	16 6		13 6	7,21	0	0		0	.	0	.	8·6	5·5	.	0	1	0	0	0	0	0	0	0	0	0
Jalgaon	33 2	—0 1	36 3	27	14 0	—0 3	8 7	9	0	0	—2 7	0		0	—0 4	14 5	11 4	+3 0	0	0	0	0	1	0	0	0	0	0	0
Malegaon	32 2	0	36 2	18	11 9	—0 7	8 7	22	(g) 0	(d) 0	—2 3	0		0	—0 2	8 9	6 6	—0 2	0	0	0	0	0	0	0	0	0	0	0
Ozar	31 2		.	.	12 1		8 6	21	0	0		0		0		(g) 13 8	(d) 10 9		0	0	0	0	0	0	0	0	0	0	0
Deolali(Aerodrome)	31 6		35 0	27	12 4		8 2	8	0	0		0		1		11 5	6 9		0	0	0	0	0	0	0	0	0	0	0
Ahmadnagar	32 4	+1·0	35 4	27	13 9	+0 6	8 3	7	0	1 2	—2 1	1 2	13	2	—0 3	10 9	7 6	—0 1	0	1	0	0	0	0	0	0	0	1	0
Khandala			.	..	.				0	0	—3 1	0		1	+0 3				0	0	0	0	0	0	0	0	0	0	0
Poona (Aerodrome)	31 6	.	34 7	27	14 5		10 2	7	0	0		0		0					0	0	0	0	0	0	0	0	0	0	0
Poona	31 9	—0 2	35 2	27	12 1	+0 5	8 8	7	0	0	—1 5	0		2	—0 2	8 2	4 6		0	0	0	0	0	0	0	0	0	0	0
Jeur	32 4	+1 2	36 2	27	14·1	—0 6	10 4	9	0	0	—2 1	0		3	—0 2	11 2	7 1	+0 8	0	0	0	0	0	0	0	0	0	0	0
Baramati	32 2	—1 1	36 4	27	14 6	+0 1	10 4	7	0	0	0	0	.	2	0 0	10 5	8 5	+0 9	0	0	0	0	0	0	0	0	0	0	0
Sholapur	32 6	—1 0	36 1	27	17 3	+0 2	13 9	7	0	0	—3 3	0		2	—0·3	10 9	7 9	—1 0	0	0	0	0	0	0	0	0	0	0	0
Miraj	36 4	—0 1	35 6	27	14 6	—0 4	9 9	7	0	0	0	0		1	0 0				0	0	0	0	0	0	0	0	0	0	0
Kolhapur	32 7		35 8	27	15 4	—0 5	12 0	8	0	0	—0 5	0		0	—0 1	12 5	9 7	+0 7	0	0	0	0	0	0	0	0	0	0	0
Marathwada																													
Aurangabad	31 8	+0 4	35 4	27	15 8	+0 5	10 3	7	0	1 2	—3 1	1 2	13	0	—0·4	12 2	9 5	+0 8	0	1	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthan)	31 4		34 8	27	11 9		8 0	9	0 3	0 3		0 3	15	1		11 3	6 6		0	1	0	0	2	0	0	0	0	0	0
Parbhani	31 8	—1 3	36 0	27	15 8	+0 1	12 0	8	0	1 0	—5 2	1 0	14	0	—0 7	9 2	6 2	—0 2	0	1	0	0	0	0	0	0	0	0	0
Nander	33 3		37 0	27	14 8		11 0	8,9	0	1 3	.	1 3	13	0	.	7 1	4 4		0	1	0	0	0	0	0	0	0	0	0
Bir	32 3	..	35 8	25,26	13·4		10 0	6,9	1 1	1 1		1 1	13	0		6 8	3 8		0	1	0	0	0	0	0	0	0	0	0
Vidarbha																													
Gondia	30 6	—0 1	33 3	27	15 2	—0 1	11 7	16	0	0 8	—13 9	0 8	13	0	—1 1	5 5	3 4	-0 1	0	1	0	0	1	0	0	0	0	0	0
Nagpur (Sonegaon)	31 8	—0 8	34 2	27	14 6	—0 7	11 1	16	0	28 5	+12 0	28 5	13	1	—0 4	11 2	9 6		0	1	0	0	0	0	0	0	0	0	0
Amraoati	32 4	+0 6	35 4	27	17 3	+0 7	13 2	8	0	5 8	—5 4	8	13	1	+0 2	12 5	10 6	+4 2	0	1	0	0	0	0	0	0	0	0	0
Akola (Aerodrome)	32·4		35 9	27	14 4		11 0	16	0	1 4		1 4	13	0		11 7	10 0		0	1	0	0	0	1	0	0	0	0	0
Akola	32 7	+0 1	36 2	26,27	15 4	+1 1	10·7	9	0	0 9	—6 7	0 9	13	0	—0 6	8 2	5 9	+0 9	0	1	0	0	1	0	0	0	0	0	0

(i) Mean of 22 days. (d) Mean total of 27 days (g) Mean of total for 26 days. (o) Mean of 16 days.
(f) Mean of 25 days. (n) Mean of 17 days.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—FEBRUARY, 1965 (MAGHA 12—PHALGUNA, 9 SAKA 1886)

Sub-Division and Station	Air temperature in °C								Rainfall in millimetres					No of rainy days (2·5 mm or more)		Wind speed, km per hour			Weather phenomena—No of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm)	Precipitation (0·3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Lane squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Vidarbha—*Contd*																													
Bramhapuri	31 6	..	34 2	27	15 9	.	11 8	16	0	2 2		2 2	13	0		6 9	4 0		0	1	0	0	0	0	0	0	0	0	0
Buldhana	29 5	−0 9	33·4	26	16 6	−1 1	14 0	7,10	0	2 4	+2 1	2 4	13	0	0	11 2	9 1	+0 5	0	1	0	0	0	0	0	0	0	0	0
Yeotmal	31 7	−0 6	35 8	27	16 8	-1 1	13 3	8	0	15 1	−11 0	15 1	13	1	+0 7	12 6	10 6	+1 1	0	1	0	0	0	0	0	0	0	0	0
Chanda	32 5	+0 1	35 4	27,28	16 0	+0 7	11 0	10	0	2 0	−18 6	1 2	13	0	−1 3	8 1	5 9	+1 9	0	2	0	0	0	0	0	0	0	0	0
Pusad	32 8		36 6	27	14 9		11 0	16	0	7 0		7 0	13	1		9 1	5 9		0	1	0	0	0	0	0	0	0	0	0
Sironcha	33 3	−0 6	36 0	27	17 6	−0 5	12 6	8	0	0	−4 7	0		0	−0 6	7 9	4 5	0	0	0	0	0	0	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Kalingapatan	29 5	−0 7	31 4	4,6	20 2	+0 3	16 4	3	15 0	15 0	−0 5	15 0	8	1	−0 3	14 3	9 0	+1 0	0	1	0	0	1	0	0	0	0	0	0
Vishakhapatnam	31 3	−0 4	33 1	21 24	20 3	+0 5	15 7	3	0	1 8	−22 1	1 6	11	0	−1 1	19 4	10 3	+5 2	0	1	0	0	0	0	0	0	0	0	0
Kalimada	31 1	+1 3	33 0	13	19 1	−1 8	16 8	1,4,7	0	0	−8 1	0		0	−0 6	12 6	9 8	+2 2	0	0	0	0	0	0	0	0	0	0	0
Nidadavole	31 6		33 4	9	20 0		17 3	3	0	0		0		0		6 6	6 0		0	0	0	0	0	0	0	0	0	0	0
Rentachintala	34 5	+0·9	37 1	22	20 3	−0 3	16 6	3	0	0	−13 5	0		0	−1 3	6 6	5 9	−2 0	0	0	0	0	0	4	0	0	0	0	0
Gannavaram	32 3	−0 6	34 6	26	20 3	+0 3	18 0	13	0	0	−3 1	0		0	−0 5	15 4	9 6	+0 3	0	0	0	0	0	0	0	0	0	0	0
Nagarjunakonda (R)																													
Masulipatnam	29 7	−0 4	33 1	21	20 3	0	18 0	3	30 4	30 4	+16 9	30 4	9	1	+0 4	4 9	3 3	−2 8	0	1	0	0	0	0	0	0	0	0	0
Ongole	31 9		35 0	8	21 1		18 0	2	0	0		0		0		9 3	6 8		0	0	0	0	0	0	0	0	0	0	0
Nellore	32 2	+0 3	34 9	21	21 5	+0 5	18 9	2	0	0	-6 1	0		0	−0 5	11 0	7 8	+2 5	0	0	0	0	0	0	0	0	0	0	0
Telangana																													
Ramgundam	33 4	−0 5	35 8	26	16 9	−1 9	13 7	9	0	0	- 2 2	0		0	−0 3	6 4	3 5	−2 2	0	0	0	0	0	0	0	0	0	0	0
Nizamabad	33 0	+0 3	36 4	28	17 1	+0 4	13 0	8	0	0	−17 0	0		0	−1 2	7 7	5 7	+1 7	0	0	0	0	0	0	0	0	0	0	0
Hanamkonda	32 8	+0 9	35 3	22	18 5	−0 3	14 3	9	0	0	−14 7	0		0	−1 1	4 7	7 4	−0 5	0	0	0	0	0	0	0	0	0	0	0
Hakimpet (Aerodrome)	30 5		34 2	28	17 7		14 3	7	0	0		0		0	−0 2				0	0	0	0	0	0	0	0	0	0	0
Bhadrachalam	33 9	−0 1	36 2	21	19 6	+0 6	14 2	9	0	1 0	−0 3	1 0	15	0	−0 9	5 0	5 6	−0 9	0	1	0	0	0	0	0	0	0	0	0
Hyderabad (Begumpet)	31 6	+0 9	34 8	28	15 8	−1 0	11 6	8	0	0	−9 1	0		0		12 3	8 3	+0 1	0	0	0	0	0	0	0	0	0	0	0
Khammam	33 6		35 7	21	20 2		17 3	3	0	0		0		0		7 1	5 0		0	0	0	0	0	0	0	0	0	0	0
Mahbubnagar	31 8		35 4	21	17 8		14 9	8	0	0		1 6	15	0	−0 5	11 2	8 4		0	0	0	0	0	0	0	0	0	0	0
Rayalaseema																													
Kurnool	33.4	−0 8	36 0	28	19 0	+0 1	16 1	14	0	1 6	−5 5	0		0	−0 3	9 7	7 1	+1 5	0	1	0	0	0	0	0	0	0	0	0
Nandyal (R)																													
Anantapur	32 7	−0 7	35 5	22	18 8	+0 1	14 2	1	0	0	−5 2	0		0	−0 2	11 4	10 7	+1 6	0	0	0	0	0	0	0	0	0	0	0
Cuddapah	33 7	−0 9	37 4	22	20 6	−0 3	17 0	2	0	0	−3 1	0		0	−0 2	4 3	2 8	−10 1	0	0	0	0	0	0	0	0	0	0	0
Arogyavaram	29 6		32 9	22	15 3		11 0	2	0	0		0		0		9 8	7 7	..	0	0	0	0	0	0	0	0	0	0	0
Madras State (Including Pondicherry)																													
Madras	30 1		33 3	8	22 0		20 1	2	0	9 2	.	9 2	13	1					0	1	0	0	0	0	0	0	0	0	0
Madras (Minambakkam)	30 6	−0 7	32 9	8	21 7	+1 5	19 8	2	0	11 0	+0 6	11 0	13	1	+0 3	12·4	8 3	−2 2	0	1	0	0	0	2	0	0	0	0	0
Vellore	31 5	−0 1	35 0	21	19 2	+0·2	16 6	1,24	0 3	0 3	−0 6	0 2	15	0	−0 6	10 3	7 9	+3 6	2	0	0	0	0	0	0	0	0	0	0
Tambaram (Aerodrome)	32 1		34 7	8	21 1		18 7	1	0	3 1	.	3 1	13	1					0	1	0	0	0	4	0	0	0	0	0
Tiruppattur	31 1		33 3	27 2	18 2		14 5	1	0	0		0		0		5 6	4 2		0	0	0	0	0	0	0	0	0	0	0
Mettur Dam R S	33 9		36 6	28	19 9	.	16 4	3	0	0		0		0		7 7	7 0		0	0	0	0	0	0	0	0	0	0	0
Cuddalore	29 0	−0 5	31 2	8	21 4	+0 3	19 1	1	1 0	31 6	+8 7	29 8	13	1	−0 2	11 7	9 6	+3 6	0	2	0	0	0	0	0	0	0	0	0
Kallakkurichchi	32 2		35 1	21	20 6		18·0	24	1 0	1 0	−13 2	1 0	14	0	−0 6	9 2	6 7		0	1	0	0	0	0	0	0	0	0	0
Salem	32 6	−1 3	34 9	27	20 7	+1·3	17 8	24	0	0	−8 4	0		0	−0 6	11 4	12 0	+4 8	0	0	0	0	0	0	0	0	0	0	0
Coimbatore (Pilamedu)	31 4		34 1	21	17 8		12 8	8	0	0		0		0		16 3	12 5		0	0	0	0	0	0	0	0	0	0	0
Coimbatore	31 5	−1 2	34 9	27	18 6	−0 6	14 3	8	0	0	−9 1	0		0	−0 5		7 0	+2 8	0	6	0	0	0	0	0	0	0	0	0
Nagapattinam	28 8	−0 5	30 4	28	23 9	+1 0	21 5	1,2	4 0	30 8	+9 7	17 0	13	3	+2 0	16 7	17 5	+6 7	0	2	0	0	0	0	0	0	0	0	0
Tiruchirappalli	32 3	−0 8	34·3	8	21 3	+0 6	19 3	2	0 5	3 7	−8 8	2 0	14	0	−0 6	14 0	10 8	+4 7	0	4	0	0	0	0	0	0	0	0	0
Vedaranniyam	31·0		32 4	8	23 0		20 2	2	0	56 8		37 5	15	2		11 2	8 0	.	0	4	0	0	0	1	0	0	0	0	0
Adirampattinam	30 9		33 0	26	22 0	..	19 8		10 6	19 0	..	15·4	15	1	.	13 4	9 0		0	1	0	0	0	0	0	0	0	0	0
Madurai	32 1	−0 3	33 2	9	21·4	+0 6	20 1	28		1 4	−12 1	1·4	14	0	−0 7		6 1	0	0	1	0	0	0	0	0	0	0	0	0
Madurai (Aerodrome)	31 9	.	34 3	8	21 2		19 3	2	0·4	1 2		1 2	14	0	..	13·6	10 1		0	4	0	0	0	0	0	0	0	0	0
Tondi	29 3		30 3	12	23 2		21 1	15	12 2	55 2		35 0	15	4		18 4	16 7	.	0	3	0	0	0	0	0	0	0	0	0
Pamban	29 4	+0 1	31 9	9	23 9	−0 1	22 0	14,20	13 2	70 1	+48 3	28 3	13	3	+1 6	19 0	14 8	+4 0	0	3	0	0	0	0	0	0	0	0	0
Tuticorin	28 7	+0 5	35 8	9	22 3	−0 7	20 4	8	5 8	19 6	−0 8	10 6	13	3	+2 3	22 0	21 0	+1 6	0	4	0	0	0	0	0	0	0	0	0
Palayankottai	32 9	+0 2	35 5	9	22 1	−0 6	20 0	28	8 4	12 6	−15 1	7 4	16	2	+0 3	12 3	8 7	+0 4	0	0	0	0	0	0	0	0	0	0	0
Kanniyakumari	31 7	..	33 5	13	23 5		21 5	28	0	0		0		0		25 4	21 6		0	0	0	0	0	0	0	0	0	0	0
Coastal Mysore																													
Karwar	31 5	+0 7	37 3	16	19 0	−0 7	16 9	25	0	0	−0 7	0		0	−0 1	13 0	8 6	.	0	0	0	0	0	0	0	0	0	0	0
Honavar	31 7	+0 3	36 8	16	20 5	+0·1	18 0	7	0	0	−0 3	0		0					0	0	0	0	0	0	0	0	0	0	0
Mangalore (Bajpe)	32 8		37 6	26	21·4		17 8	8	0	0		0	.	0	.	11 8	7 2		0	0	0	0	0	0	0	0	0	0	0
Mangalore	32 3	+1 1	36 8	26	22 4	0 1	19 8	7	0	0	−1 8	0		0	−0 1	14 3	10 1	+1 9	0	0	0	0	0	0	0	0	0	0	0

(K) Register not received

Sub-Division and station	Air temperature in °C								Rain fall millimeters					No of rainy days (2.5 mm or more)		Wind speed, kms per hour.			Weather phenomena—No of days								
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830 1730 hour	Mean 24 hours	Departure from normal	Precipitation 0 1 or 0 2mm)	Precipitation (0 3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27
Interior Mysore(North)																											
Bidar	31 1	—0 1	35 0	27	18 1	—0 5	16 0	7,10,11	0	0	—9 4	0		0	—0 8				0	0	0	0	0	0	0	0	0
Gulbarga	32 9	—0 6	36 2	27	17 7	—0 2	13 4	8	0	0	—6 9	0		0	—0 5	12 1	9 1	+0 4	0	0	0	0	0	0	0	0	0
Bijapur	31 8	—1 0	34 9	28	18 1	+0 4	15 0	7	0	0	—2 3	0		0	—0 2	7 9	6 2	+0 7	0	0	0	0	0	0	0	0	0
Raichur	33 0	—0 4	36 6	28	20 3	+0 1	17 8	7	0	0	—7 1	0		0	—0 6	11 3	11 4	+2 9	0	0	0	0	0	0	0	0	0
Belgaum	31 1	—1 3	33 9	27	15 2	0	12 7	8	0	0	—1 3	0		0	—0 1	5 6	3 8	—2 2	0	0	0	0	0	0	0	0	0
Belgaum (Sambra)	30 9		33 2	23,27, 28	16 0	.	11 0	7	0	0		0		0		11 0	7 3	.	0	0	0	0	0	0	0	0	0
Gadag	32 0	—0 4	34 7	27,28	18 0	—0 3	13 5	7	0	0	—4 1	0		0	—0 4	10 4	8 1	+1 2	0	0	0	0	0	0	0	0	0
Interior Mysore (South)																											
Bellary	33 7	—0 6	37 0	27	19 5	+0 6	14 0	3	0	0	—4 6	0		0	—0 3	9 4	6 5	+1 8	0	0	0	0	0	0	0	0	0
Chitradurga	30 9	—1 1	33 9	28	19 1	+0 1	16 3	9	0	0 6	—2 2	0 6	10	0	—0 2	10 3	8 4	+2 3	0	1	0	0	0	0	0	0	0
Shimoga	31 0	—1 9	34 9	27	15 5	—0 6	12 4	7	0		—0 2	0		0	0	3 1	3 6	—0 7	0	0	0	0	24	0	0	0	0
Agumbe	29 0	.	32 2	26	18 7		9 4	7,8	0	0		0		0	.		4 2		0	0	0	0	0	0	0	0	0
Balehonnur	29 9	+0 8	32 3	26	15 5	—0 1	12 6	8	0	0	—1 5	0		0	—0 2		.		0	0	0	0	0	0	0	0	0
Hassan	29 5	—1 1	31 5	28	15 4	+0 1	12 7	8	0	0	—6 1	0		0	—0 4	7 9	5·6	+0 9	0	0	0	0	0	0	0	0	0
Bangalore	28 7	—1 1	31 3	21,22	16 3	+0 7	13 0	2	0	0	—6 6	0		0	—0 4	12 5	10 5	+2 9	0	0	0	0	0	1	0	0	0
Bangalore (Aerodrome)	28 5		30·8	27	15 1		11 0	2	0	0		0		0		.			0	0	0	0	0	2	0	0	0
Mysore	30 0	+1 6	32 0	28	17 6	—0 3	14 1	4days	0	0	—6 1	0		0	—0 5	15·8	11 1	+3 5	0	0	0	0	0	0	0	0	0
Kerala																											
Calicut	31 7	+0 3	32 9	26	22 5	—0 3	19 5	8	0	0	—4 8	0		0	—0 3	15 3	11 6	+1 8	0	0	0	0	0	0	0	0	0
Palghat	34 8		37 0	22	21 8		18 4	8	0	0		0		0		13 0	10 0		0	0	0	0	0	0	0	0	0
Fort Cochin	31 0	+0 4	33 2	16	22 7	—1 5	20 7	3	0	11 2	—9 1	9 4	17	1	—0·2	15 1	10 4	+2 7	0	2	0	0	0	0	0	0	0
Cochin (Naval Air Station)	31 7		33 9	25	22 8		19 9	9	0	14 1		13 6	17	1		12 4	8·2		0	2	0	0	0	0	0	0	0
Alleppey	32 1	+0 2	36 3	25	23 8	+0 1	20 3	25	0	8 6	—35 2	8 6	25	1	—1 5	16 5	9 8	—0 5	0	1	0	0	0	0	0	0	0
Punalur	34 3	.	36 3	20	20 5		17 8	9	8 0	8 0		8 0	21	1		3 2	4·3		0	1	0	0	0	0	0	0	0
Trivandrum	32 1	+0 4	34 0	1	23 2	+0 3	21 3	28	0	0	—19 3	0		0	—1·3	9 2	6 7	+1 2	0	0	0	0	0	0	0	0	0
Trivandrum (Aerodrome)	31 0	.	31 9	18	22 1		19 5	28		2 3		2 3	5	0			6 0	.	0	1	0	0	0	0	0	0	0
Arabian Sea Islands																											
Amini	32 2	+1 1	33 7	5	23 4	—1 1	20 5	1	21 1	21 3	+19 5	18 7	13	2	+1 7	7 3	6 3	—1 6	0	2	0	0	0	0	0	0	0
Minicoy	30 1	+0 4	30 7	25	23 3	—0 4	21 1	25	0 7	0 7	—17 3	0 7	13	0	—1 2	8 6	5 5	—1 9	0	1	0	0	0	0	0	0	0
Hill Stations excluding Kashmir																											
Dalhousie	11 1	—2 4	18 5	27	1 5	—2 6	—3 0	20	61 0	206 0	+49 4	63 0	13	8	+0 7	4 2	5 1	+1 2	0	11	6	0	3	4	0	0	0
Dharmsala	15 5	—1 6	20 4	27	6 8	—2 0	2 3	20,21	28 8	119 4	+27 1	39 8	13	7	+2 3	7·1	6 8	+2 2	1	8	0	0	4	0	0	0	0
Simla	9 4	+0 1	13 9	1	.				45 6	92 2	+18 0	21 0	19	8	+2·3	3 4	3 1	+0 4	1	9	8	0	3	0	0	0	0
Dharmpur		.			..					122 8	+39 2	41 6	19	6	+0 5		.	.	0	8	.	.	.	.	.	.	.
Lokpal	—5 5		—2 1	2	—11 2		—12 0	6	.	45) 6		69 2	5	11	..		.	.	0	11	10	0	0	0	0	0	0
Badrinath	Closed during winter Months																										
Joshimath	11 1		18 2	27	2 1		—1 7	21	62 6	232 4		47 0	18	10		6 8	7 1	.	0	12	8	2	0	0	0	0	0
Mussoorie	10 6	+0 3	19 3	3	1 8	—1 4	—2 6	14	33 4	94 4	+7 8	21 0	18	8	+2 8	11·3	10 3	+3 1	0	6	4	1	7	0	0	0	0
Mukteswar (Kumaun)	10 3	0	16 7	27	1 2	—0 9	—2 8	21	36 6	90 6	+26 3	21 0	19	8	+3 3	13 0	12 4	+3 1	0	11	7	0	8	5	0	0	0
Nainital	10 8	—2 3	16 0	26	2 5	—1·6	—1 1	21	12·0	92 0	+48 0	32 0	13	7	+4 6	7 6	8 4	+0 5	0	8	5	0	0	0	0	0	0
Kalimpong	20 3	+4 0	24 0	3	13 6	+4 5	8 8	26,28	10 0	10 0	—18 7	10 0	20	1	—2 0	6 0	5·7	—5 4	0	1	0	0	0	0	0	0	0
Darjeeling	12 2	+2 1	15·3	26,27	4 5	+0 7	0	9	4 6	8 0	—22 2	4 8	20	1	—1 6	4 1	3 6	+0 2	0	4	0	0	2	2	0	0	0
Kohima	17 6	.	20 8	11	9 5	.	6 1	9,10	38 6	76 8		29 4	4	5	..	4·2	4 5		0	6	0	0	0	0	0	0	0
Shillong	18 7	+1 8	21 5	1	5 9	+0 1	2 0	16	8 2	13 7	—13 2	5 8	8	3	+0 2	2·6	2·8	—0 9	0	4	0	0	0	0	0	0	0
Cherrapunji (R)																											
Abu	22 8	+2 5	26 3	2	8 9	—2 8	7 2	14,23	0	0	—5 8	0		0	—0·6	9 5	5 9	—1 2	0	0	0	0	0	1	0	0	0
Ajmer†																											
Pachmarhi	23 8	—0 3	26 6	4	9 0	—1 4	4 4	9,16	0	0 6	—16 4	0 6	20	0	—1 5	5 7	3 2	—1 8	0	1	0	0	1	0	0	0	0
Mahabaleshwar	36 3	+1 1	39 6	26,27	14 2	—0 4	9 5	7	0	0	—2 5	0	..	0	—0 1	11 2	11 2	+1 9	0	0	0	0	0	0	0	0	0
Mercara	26 4	—0 6	28 7	28	13 9	—1 1	10 0	9	0	0	—6 1	0		0	—0 5	11 8	9·8	+4 5	0	0	0	0	0	0	0	0	0
Ootacamund	20 9	+1 2	23 6	2	7 3	+0 7	4 8	1	0	0	—12 9	0		0	—1 1	4 4	2 4	—2 1	0	0	0	0	0	0	0	0	0
Coonoor (R)																											
Kodaikanal	16 8	—1 0	20 1	9	7 8	—0 8	5 3	11	3 9	23 4	—15 5	9 0	14	4	+1 6	12 2	11 5	—1 1	1	4	0	0	0	5	0	0	0
Nepal																											
Katmandu	25 2		22 7	27	2 6	..	—1 2	10	2 2	4 8		2 2	20	0		2 2	1 3	..	0	3	0	0	0	4	0	7	0
Sikkim																											
Lachen (R)																											
Hydrometeorological Observatories																											
Damodar Catchment																											
Tilaiya	26 7	..	30 6	5	12 0	..	7 3	10,11	0 4	11 6	..	6 2	19	2	..	10·5	6·3	..	1	3	0	0	0	0	0	0	0
Hazaribagh	25 7	.	29 7	5	10 5	..	6 6	16	1 3	6 6		3 0	21	2	..	10·1	5 4	..	0	3	0	0	2	0	0	0	0
Kodar (R)																											

(R) Register not received

†Less than 15 days

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm or more)		Wind speed, km. per hour			Weather phenomena—No. of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2mm)	Precipitation (0·3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories.—(Contd)																													
Damodar Catchment—(Contd)																													
Bokaro	29·3		33 1	5	8 3		4 4	11	12 2	13 2		10 2	20	1		6 3	3 7		1	5	0	0	0	0	0	0	0	0	0
Maithon	29 3		34 0	6	10 4		7 2	11	7 0	15 9	.	9 3	20	2				.	0	3	0	0	1	3	0	0	0	0	0
Ramgarh	28·7	.	33 2	5	11 7		7 0	12,17	26 6	28 5	.	13 5	20	2		4 1	1 9		0	4	0	1	4	0	0	0	0	0	0
Panchet Hills	28 9	..	32 8	6	14 4		10 5	9	12 1	23 9	..	14 6	20	3		3 9	2 9		0	5	0	0	0	0	0	0	0	0	0
Durgapur	29 4		34 0	6	15 2		12 3	9,11, 17	0	24 4		16·8	20	3		8 7	6 3		0	3	0	0	0	4	0	0	0	0	0
Mahanadi Catchment.																													
Gnabahar	28·5	.	30 9	5	10 4	..	6 7	16	..	24 8		16 7	23	2					0	3	0	1	1	1	0	0	0	0	0
Hirakud	30 6		32 8	20	16 6	.	13 5	17	2 7	3 1	.	3 1	7	1		5 2	3 0		0	1	0	0	2	0	0	0	0	0	0
Bhimkund	29 6	..	32 6	5	13 6	.	10 3	17	2 7	3 9		8 7	22	3		5 3	2 6		0	6	0	0	6	1	0	0	0	0	0
Sonepur	31 1	..	34 0	20,21	18 1	..	13 1	16	..	4 3	.	2 5	1			4 3		0	2	.	.	.	.		.	..	.	.	
Khiyrawan	30 1	.	32 1	6	14 5	.	10 6	10	0	0	..	0	.	0		7 5	5 5	.	0	0	0	0	0	0	0	0	0	0	0
Narmada Catchment.																													
Bagra Tawa	30 2	.	33 4	4	11·8	.	7·4	9	0 6	8 5	..	8 0	13	1		7 9	4 6		0	2	0	0	2	0	0	0	0	0	0
Punasa (R)																													
Thikri	32 3	.	35 9	4	12 7	..	5 6	16		0		0		0	.				0	0					.	..	.	..	
Sabarmati Catchment.																													
Daroi	31 2	.	35 4	3	13 7	.	9 6	8		0	.	0		0				.	0	0		.						.	
Gandak Catchment																													
Jomosom	11 (d)	.	15 4	27	−1 9 (c)	.	−5 5	8	15 3	35 6		20 3	19	3					0	3				.			.	..	
Khudi Bazar	..	..				.		.	..	26 4	.	8 4	20	4	.				0	7				.		.	.	.	
Timure	16 7	..	19 6	27					18 3	48 2		18 9	20	5					0	7		.			..	..	..	..	
Pokhara	21 6	.	23 9	28	9 0	.	4 3	9	25 6	56 2		24 0	7	5		3 2	3 1		2	6	0	2	9	0	0	0	0	0	0
Gorkha	20 8	.	23 1	27,28	9 2		6 4	9	0 7	6 3		3 7	20	1	.				0	3	0	0	1	1	0	0	0	0	0
Nuwakot	22 1	..	24 8	27	10 2		7 6	8	3 1	9 2		5 3	20	1					1	3								.	
Ghaghara Catchment (Trans Himalayan Region)																													
Dailekh	17 8	..	19 8	28	8·6		7 1	5	0	25 2	..	18 0	20	3		.			0	3		.					.		
Ghaghara Catchment.																													
Dadeldhura	11 6	..	16 7	27	3 7 (e)	.	−1 0	19	43 5	141 5		45 0	13	7	.	7 3	6 7	.	1	8	1	6	8	4	0	9	0	0	0
Sallayana	18 4	.	21 2	26	7 4		4 4	22	8 0	8 7	.	6 7	20	1	.				0	2		..		.		..	.		
Butwal	26·1	.	28 9	19	14 1		8 7	24	2 0	13 2		13·0	20	1	..	.	..		1	1		.	.	.		.		.	
Baghmati Catchment																													
Katmandu*																													
Kosi Catchment.																													
Chautara	19 8	..	22 3	25	7 0		3 3	9	9 8	36·2	.	25 6	4	3	..	..	..	.	0	3					..	..	..	..	
Chepua (R)																													
Walungchung Gola	4 1	..	7 7	27	−4 2		−9 5	8	0	81 3		25·4	8	8	.	..			0	8	.	.					.		
Taplethok	20 2		23 1	27	7 5	.	3·8	9	0	10 4	.	5 4	8	1			..	.	0	5		..		..		..	.	.	
Bhojpur	16 1	.	19 0	15	7 9	.	4 4	9	7 6	15 6		8 0	4	3	.	.		.	0	3		.	.	..		.	.	.	
Taplejung	15 0	.	17 5	27	5 3	.	1 4	9	1 8	10 6	..	8·4	4	1	..	7 6	5 2		1	3	0	1	3	0	0	0	0	0	0
Okhaldunga	15 6	.	19 3	27	5·7	..	3 0	9	4 8	20 4		11 9	4	3	.	6 6	4 9	.	1	5	0	0	3	1	0	3	0	0	0
Champur	.	.	..	.			.		0	11 8	.	7·2	4	2	.	.	..	..	0	2		.	.			.		.	
Angbung			.	.	.	.	..		0	0	..	0		0	.			.	0	0		..	..		..	.	.	.	.
Barahakshetra	26 3	.	28 5	19	12 4	.	9·4	10	6 6	6·6	.	6·6	20	1	..	7 4	4 6	..	0	1	0	1	3	0	0	0	0	0	0
Tista Catchment																													
Gangtok	16 3		19 2	27	5 3	..	1 6	9	16 9	34 0	..	8 7	7	5	..	3 1	3 8	.	0	9	0	2	4	1	0	0	0	0	0
Gezing	18 9		22 7	27	6 6	..	2 3	9	0 4	3 7	.	2 2	4	0	..				0	4	..	..	.	..	..	.	..	..	

(R) Register not received. *Data included under 'Nepal'. (d) Mean of 27 days (e) Mean of 26 days.

Sub-Division and station	Air temperature in °C								Rain fall millimeters					No of rainy days (2·5 mm or more)		Wind speed, kms per hour.			Weather phenomena—No of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830 1730 hour	Mean 24 hours	Departure from normal	Precipitation 0·1 or 0·2mm)	Precipitation (0·3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	28
Interior Mysore(North)																													
Bidar	31 1	—0 1	35 0	27	18 1	—0 5	16 0	7,10,11	0	0	—9 4	0		0	—0 8				0	0	0	0	0	0	0	0	0	0	
Gulbarga	32 9	—0 6	36 2	27	17 7	—0 2	13 4	8	0	0	—6 9	0		0	—0 5	12 1	9 1	+0 4	0	0	0	0	0	0	0	0	0	0	
Bijapur	31 8	—1 0	34 9	28	18 1	+0 4	15 0	7	0	0	—2 3	0		0	—0 2	7 9	6 2	+0 7	0	0	0	0	0	0	0	0	0	0	
Raichur	33 0	—0 1	36 6	23	20 3	+0 1	17 8	7	0	0	—7 1	0		0	—0 6	11 3	11 4	+2 9	0	0	0	0	0	0	0	0	0	0	
Belgaum	31 1	—1 3	33 9	27	15 2	0	12 7	8	0	0	—1 3	0		0	—0 1	5 6	3 8	—2 2	0	0	0	0	0	0	0	0	0	0	
Belgaum (Sambra)	30 9		33 2	23,27,28	16 0	.	11 0	7	0	0		0		0		11 0	7 3		0	0	0	0	0	0	0	0	0	0	
Gadag	32 0	—0 4	34 7	27,28	18 0	—0 3	13 5	7	0	0	—4 1	0		0	—0 4	10 4	8 1	+1 2	0	0	0	0	0	0	0	0	0	0	
Interior Mysore (South)																													
Bellary	33 7	—0 6	37 0	27	19 5	+0 6	14 0	3	0	0	—4 6	0		0	—0 3	9 4	6 5	+1 8	0	0	0	0	0	0	0	0	0	0	
Chitradurga	30 9	—1 1	33 9	28	19 1	+0 1	16 3	9	0	0 6	—2 2	0 6	10	0	—0 2	10 3	8 4	+2 3	0	1	0	0	0	0	0	0	0	0	
Shimoga	31 0	—1 9	34 9	27	15 5	—0 6	12 4	7	0		—0 2	0		0	0	3 1	3 6	—0 7	0	0	0	0	0	24	0	0	0	0	
Agumbe	29 0		32 2	26	13 7		9 4	7,8	0	0		0		0	.		4 2		0	0	0	0	0	0	0	0	0	0	
Balehonnur	29 9	+0 8	32 3	26	15 5	—0 1	12 6	8	0	0	—1 5	0		0	—0 2				0	0	0	0	0	0	0	0	0	0	
Hassan	29 5	—1 1	31 5	28	15 4	+0 1	12 7	8	0	0	—6 1	0		0	—0 4	7 9	5·6	+0 9	0	0	0	0	0	0	0	0	0	0	
Bangalore	28 7	—1 1	31 3	21,22	16 3	+0 7	13 0	2	0	0	—6 6	0		0	—0 4	12 5	10 5	+2 9	0	0	0	0	0	1	0	0	0	0	
Bangalore (Aerodrome)	28 5		30·8	27	15 1		11 0	2	0	0		0		0		.			0	0	0	0	0	2	0	0	0	0	
Mysore	30 0	+1 6	32 0	28	17 6	—0 3	14 1	4days	0	0	—6 1	0		0	—0 5	15 8	11 1	+3 5	0	0	0	0	0	0	0	0	0	0	
Kerala																													
Calicut	31 7	+0 3	32 9	26	22 5	—0 3	19 5	8	0	0	—4 8	0		0	—0 3	15 3	11 6	+1 8	0	0	0	0	0	0	0	0	0	0	
Palghat	34 8		37 0	22	21 8		18 4	8	0	0		0		0		13 0	10 0	.	0	0	0	0	0	0	0	0	0	0	
Fort Cochin	31 0	+0 4	33 2	16	22 7	—1 5	20 7	3	0	11 2	—9 1	9 4	17	1	—0·2	15 1	10 4	+2 7	0	2	0	0	0	0	0	0	0	0	
Cochin (Naval Air Station)	31 7		33 9	25	22 8		19 9	9	0	14 1		13 6	17	1		12 4	8·2		0	2	0	0	0	0	0	0	0	0	
Alleppey	32 1	+0 2	36 3	25	23 8	+0 1	20 3	25	0	8 6	—35 2	8 6	25	1	—1 5	16 5	9 8	—0 5	0	1	0	0	0	0	0	0	0	0	
Punalur	34 3	.	36 3	20	20 5		17 8	9	8 0	8 0		8 0	21	1		3 2	4 3		0	1	0	0	0	0	0	0	0	0	
Trivandrum	32 1	+0 4	34 0	1	23 2	+0 3	21 3	28	0	0	—19 3	0		0	—1·3	9 2	6 7	+1 2	0	0	0	0	0	0	0	0	0	0	
Trivandrum (Aerodrome)	31 0	.	31 9	18	22 1		19 5	28		2 3		2 3	5	0			6 0	.	0	1	0	0	0	0	0	0	0	0	
Arabian Sea Islands																													
Amini	32 2	+1 1	33 7	5	23 4	—1 1	20 5	1	21 1	21 3	+19 5	18 7	13	2	+1 7	7 3	6 3	—1 6	0	2	0	0	0	0	0	0	0	0	
Minicoy	30 1	+0 4	30 7	25	23 3	—0 4	21 1	25	0 7	0 7	—17 3	0 7	13	0	—1 2	8 6	5 5	—1 9	0	1	0	0	0	0	0	0	0	0	
Hill Stations excluding Kashmir																													
Dalhousie	11 1	—2 4	18 5	27	1 5	—2 6	—3 0	20	61 0	206 0	+49 4	63 0	13	8	+0 7	4 2	5 1	+1 2	0	11	6	0	3	4	0	0	0	0	
Dharmsala	15·5	—1 6	20 4	27	6 8	—2 0	2 3	20,21	28 8	119 4	+27 1	39 8	13	7	+2 3	7 1	6 8	+2 2	1	8	0	0	4	0	0	0	0	0	
Simla	9 4	+0 1	13 9	1					45 6	92 2	+18 0	21 0	19	8	+2 3	3 4	3 1	+0 4	1	9	8	0	3	0	0	0	0	0	
Dharmpur		.		.	..				.	122 8	+39 2	41 6	19	6	+0 5		.		0	8		.		.	.	..	.	..	
Lokpal	—5 5		—2 1	2	—11 2		—12 0	6		451 6		69 2	5	11					0	11	10	0	0	0	0	0	0	0	
Badrinath	Closed during winter Months																												
Joshimath	11 1		18 2	27	2 1		—1 7	21	62 6	232 4		47 0	18	10		6 8	7 1		0	12	8	2	0	0	0	0	0	0	
Mussoorie	10 6	+0 3	19 3	3	1 8	—1 4	—2·6	14	33 4	94 4	+7 8	21 0	18	8	+2 8	11 3	10 3	+3 1	0	8	4	1	7	0	0	0	0	0	
Mukteswar (Kumaun)	10 3	0	16 7	27	1 2	—0 9	—2 8	21	36 6	90 6	+26 3	21 0	19	8	+3 3	13 0	12 4	+3 1	0	11	7	0	8	5	0	0	0	0	
Nainital	10 8	—2 3	16 0	26	2 5	—1 6	—1 1	21	12 0	92 0	+48 0	32 0	13	7	+4 6	7 6	8 4	+0 5	0	8	5	0	0	0	0	0	0	0	
Kalimpong	20 3	+4 0	24 0	3	13 6	+4 5	3 8	26,28	10 0	10 0	—18 7	10 0	20	1	—2 0	6 0	5·7	—5 4	0	1	0	0	0	0	0	0	0	0	
Darjeeling	12 2	+2 1	15 3	26,27	4 5	+0 7	0	9	4 6	8 0	—22 2	4 8	20	1	—1 6	4 1	3 6	+0 2	0	4	0	0	2	2	0	0	0	0	
Kohima	17 6	.	20 8	11	9 5	..	6 1	9,10	38 6	76 8		29 4	4	5		4 2	4·5	.	0	6	0	0	0	0	0	0	0	0	
Shillong	18 7	+1 8	21·5	1	5 9	+0 1	2 0	16	8 2	13 7	—13 2	5 8	8	3	+0 2	2·6	2 8	—0 9	0	4	0	0	0	0	0	0	0	0	
Cherrapunji (R)																													
Abu	22 8	+2 5	26 3	2	8 9	—2 8	7 2	14,23	0	0	—5 8	0		0	—0 6	9 5	5 9	—1 2	0	0	0	0	0	1	0	0	0	0	
Aijal†																													
Pachmarhi	23 8	—0 3	26 6	4	9 0	—1 4	4 4	9,16	0	0 6	—16 4	0 6	20	0	—1 5	5 7	3 2	—1 8	0	1	0	0	1	0	0	0	0	0	
Mahabaleshwar	36 3	+1 1	39 6	26,27	14 2	—0 4	9 5	7	0	0	—2 5	0	..	0	—0 1	11·2	11 2	+1 9	0	0	0	0	0	0	0	0	0	0	
Mercara	26 4	—0 6	28 7	28	13 9	—1 1	10 0	9	0	0	—6 1	0		0	—0 5	11 8	9 8	+4 5	0	0	0	0	0	0	0	0	0	0	
Ootacamund	20 9	+1 2	23·6	2	7 3	+0 7	4 8	1	0	0	—12 9	0	.	0	—1 1	4 4	2 4	—2 1	0	0	0	0	0	0	0	0	0	0	
Coonoor (R)																													
Kodaikanal	16 8	—1 0	20 1	9	7 8	—0 8	5 3	11	3 9	23 4	—15 5	9 0	14	4	+1 6	12 2	11 5	—1 1	1	4	0	0	0	5	0	0	0	0	
Nepal																													
Katmandu	25 2		22 7	27	2 6	..	—1 2	10	2 2	4 8		2 2	20	0		2 2	1 3	..	0	3	0	0	0	4	0	7	0	0	
Sikkim																													
Lachen (R)																													
Hydrometeorological Observatories																													
Damodar Catchment																													
Tilaiya	26 7	..	30 6	5	12 0	.	7·3	10,11	0 4	11 6	..	6 2	19	2	.	10·5	6·8	..	1	3	0	0	0	0	0	0	0	0	
Hazaribagh	25 7		29 7	5	10 5	..	6 6	16	1 3	6·6		3 0	21	2	..	10 1	5 4		0	3	0	0	2	0	0	0	0	0	
Konar (R)																													

(R) Register not received

†Less than 15 days

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No of rainy days (2·5 mm or more)		Wind speed, km. per hour			Weather phenomena—No of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2mm)	Precipitation (0·3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories —(Contd)																													
Damodar Catchment —(Contd)																													
Bokaro	29·3		33 1	5	8 3		4 4	11	12 2	13 2	.	10 2	20	1		6 3	3 7		1	5	0	0	0	0	0	0	0	0	0
Maithon . .	29 3		34 0	6	10 4	.	7 2	11	7 0	15 9		9 3	20	2				..	0	3	0	0	1	3	0	0	0	0	0
Ramgarh	28 7		33 2	5	11 7		7 0	12,17	26 6	28 5		13 5	20	2		4 1	1 9		0	4	0	1	4	0	0	0	0	0	0
Panchet Hills .	28 9	..	32 8	6	14 4		10 5	9	12 1	23 9	..	14 6	20	3		3 9	2 9		0	5	0	0	0	0	0	0	0	0	0
Durgapur .	29 4		34 0	6	15 2		12 3	9,11, 17	0	24 4		16 8	20	3		8 7	6 3		0	3	0	0	0	4	0	0	0	0	0
Mahanadi Catchment,																													
Gnabahar .	28 5	..	30 9	5	10 4	..	6 7	16	..	24 8		16 7	23	2					0	3	0	1	1	1	0	0	0	0	0
Hirakud . .	30 6	..	32 8	20	16 6	..	13 5	17	2 7	3 1	.	3 1	7	1	.	5 2	3 0	.	0	1	0	0	2	0	0	0	0	0	0
Bhimkund . .	29 6	.	32 6	5	13 6	..	10 3	17	2 7	3 9	.	8 7	22	3		5 3	2 6		0	6	0	0	6	1	0	0	0	0	0
Sonepur . .	31·1	..	34 0	20,21	18 1	..	13 1	16	.	4 3	.	2 5	1		.	4 3		0	2		.		.			..	.	.
Khyrawan .	30 1		32 1	6	14·5		10 6	10	0	0	..	0	..	0	.	7 5	5 5	.	0	0	0	0	0	0	0	0	0	0	0
Narmada Catchment																													
Bagra Tawa	30 2	.	33 4	4	11 8		7·4	9	0 6	8 5	..	8 0	13	1	..	7 9	4 6		0	2	0	0	2	0	0	0	0	0	0
Punasa . (R)																													
Thukri . .	32 3	.	35 9	4	12 7	..	5 6	16		0		0		0					0	0						..	.	..	
Sabarmati Catchment,																													
Daroi .	31 2	.	35 4	3	13 7		9 6	8	.	0		0		0				..	0	0			.						..
Gandak Catchment																													
Jomosom .	11 (d)		15 4	27	−1 9 (c)	.	−5 5	8	15 3	35 6		20 3	19	3					0	3									.
Khudi Bazar .		..				..				26 4	.	8 4	20	4					0	7		.				.	.		
Timure .	16 7	..	19 6	27				.	18 3	48 2		18 9	20	5					0	7		.	.		.	..	..	..	
Pokhara	21 6	.	23 9	28	9 0		4 3	9	25 6	56 2		24 0	7	5		3 2	3 1		2	6	0	2	9	0	0	0	0	0	0
Gorkha	20 8	.	23 1	27,28	9 2		6 4	9	0 7	6 3		3 7	20	1	-				0	3	0	0	1	1	0	0	0	0	0
Nuwakot .	22 1	..	24 8	27	10 2		7 6	8	3 1	9 2		5 3	20	1			.		1	3							.		
Ghaghara Catchment (Trans Himalayan Region)																													
Dailekh	17 8	.	19 8	28	8 6		7 1	5	0	25 2	.	18 0	20	3	.				0	3		..	.						.
Ghaghara Catchment																													
Dadeldhura	11 6	..	16 7	27	3 7 (e)	.	−1 0	19	43 5	141 5		45 0	13	7	.	7 3	6 7		1	8	1	6	8	4	0	9	0	0	0
Sallayana .	18 4	.	21 2	26	7 4		4 4	22	8 0	8 7		6 7	20	1	..		.		0	2		.		.		..	..	..	
Butwal . .	26·1		28 9	19	14 1		8 7	24	2 0	13 2		13 0	20	1		.			1	1		..	.	..			.	.	
Baghmati Catchment																													
Katmandu*																													
Kosi Catchment.																													
Chautara .	19 8	..	22 3	25	7 0		3 3	9	9 8	36 2		25 6	4	3	..	.	..	.	0	3	.	.			..	..	..	..	
Chepua (R)																													
Walungchung Gola	4 1	.	7 7	27	−4 2		−9 5	8	0	81 3	.	25 4	8	8	.	.			0	8	.	.	.			.	.		
Taplethok	20 2	.	23 1	27	7 5	.	3 8	9	0	10 4	.	5 4	8	1	.		..		0	5		.				..	.		
Bhojpur .	16 1	.	19 0	15	7 9	.	4 4	9	7 6	15 6		8 0	4	3	.			.	0	3			.	..		.	.	.	
Taplejung .	15 0	.	17 5	27	5 3	.	1 4	9	1 8	10 6	..	8·4	4	1		7 6	5 2		1	3	0	1	3	0	0	0	0	0	0
Okhaldunga .	15 6	.	19 3	27	5 7	..	3 0	9	4 8	20 4		11 9	4	3	.	6 6	4 9	.	1	5	0	0	3	1	0	3	0	0	0
Champur .		.	..			..	.		0	11 8	..	7 2	4	2	.		..	.	0	2	.	.	.			.			.
Angbung			.	.	..		..	.	0	0	.	0		0	.				0	0		.		.	..	.	.	..	.
Barahakshetra .	26 3	,	28·5	19	12·4	.	9·4	10	6 6	6 6	.	6·6	20	1	..	7 4	4 6	..	0	1	0	1	3	0	0	0	0	0	0
Tista Catchment																													
Gangtok .	16 3		19 2	27	5 3	..	1 6	9	16 9	34·0	..	8 7	7	5	..	3 1	3 8	.	0	9	0	2	4	1	0	0	0	0	0
Gezing . .	18 9		22 7	27	6·6	..	2 3	9	0 4	3 7		2 2	4	0	..		.	.	0	4	..	..	.	..	..	.	..	..	

(R) Register not received. *Data included under 'Nepal'. (d) Mean of 27 days (e) Mean of 26 days

Sub-Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas)		Wind speed (Km. p h.)				No of observations										
			At mean sea level or height in g p m of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point				Mean amount	Departure from normal	Mean wind speed in Km per hour	62 or more	20 to 61	1 to 19	Wind direction N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1012 1	1009 0		25 7	23 5	22 4	27 1	82		2 6		3 4	0	0	18	1	14	0	0	0	1	1	1	10	0
	1730	,,	1009 1	1006 0		26 8	23 3	21·5	25 6	74		3 3		10 1	0	0	24	2	14	3	2	0	1	0	2	4	0
Long Island	0830	25	1012 1	1009 3		27 1	23 9	22 4	27 1	76		3 2		1 3	0	0	17	1	6	3	3	0	0	2	2	11	0
	1730	,,	1009 4	1006 6		26 5	23 4	21 9	26 3	76	.	3 3		0 5	0	0	8	0	3	4	1	0	0	0	0	20	0
Port Blair	530	79	1010·1	1001 1		23 0	22 0	21 5	25 6	92		3 7		3 9	0	0	17	2	6	4	0	0	1	1	3	11	0
	0830	,,	1012 1	1003 3	—1 2	28 4	24 1	22 1	26 6	68	—3	3 6	+0 7	10 4	0	1	25	4	17	3	1	0	0	1	0	2	0
	1130	,,	1010 7	1001 9		30 1	24 5	21 8	26 1	62		2 9		12 0	0	3	25	1	15	10	2	0	0	0	0	0	0
	1730	,,	1009 3	1000 4	.	26 5	23 3	21 7	25 9	75		3 3	.	8 1	0	1	25	1	13	4	1	0	1	0	1	2	0
	2330	,,	1010 8	1001 8	.	24 4	22 8	22 0	26 4	86		2 9		4 6	0	0	18	0	13	2	0	0	2	1	0	10	0
Car Nicobar	0830	10	1011 3	1010 2		28 4	24 7	22 9	27 9	73		3 5		3 3	0	0	25	0	24	1	0	0	0	0	0	3	0
	1730	,,	1008 5	1007 3		27 4	24 3	22 9	27 9	76		3 7		1 9	0	0	15	0	15	0	0	0	0	0	0	13	0
Nancowry	0830	26	1011 3	1008 4		29 0	25 5	23 9	29 7	74		3 8		0 6	0	0	2	0	0	1	0	0	1	0	0	26	0
	1730	,,	1008 1	1005 2		28 4	25 1	23·7	29 3	75		3 8		0	0	0	0	0	0	0	0	0	0	0	0	28	0
Kondul	0830	8	.			27 6	25 2	24 1	30 0	81	.	4·2		.		.											.
	1730	,,		.		27 3	25 0	23 9	29 7	82		3 8		.			.	.		.	..		.		.		
North Assam (Including NEFA)																											
Pasighat	0830	157	1015 5	997 1		16 4	14 2	12 4	14 4	77	.	4 0		16·5	0	12	14	3	0	0	0	0	0	0	23	2	0
	1730	,,	1011 3	993 1		17 7	15 3	13 5	15 5	77		4·3		6 5	0	2	21	4	3	1	0	0	0	0	15	5	0
Dibrugarh (Mohanbari)	0230	111	1012 4	999 2		12 7	12 1	11 6	13 7	92	.	3 5		2 7	0	1	7	0	3	3	1	0	0	1	0	20	0
	0530	,,	1013 0	999 8		11 9	11 4	10 9	13 0	93		3 9		2 2	0	0	10	1	3	4	0	0	0	2	0	18	0
	0830	,,	1015 2	1002 1	—1 3	16 9	14 4	12 4	14 4	75	—10	3 5	—0 9	5 9	0	0	27	0	14	13	0	0	0	0	0	1	0
	1130	,,	1013 6	1000 7		21 2	15 7	11 3	13 4	55		3 5		6 6	0	0	28	4	15	8	0	0	0	0	0	0	1
	1430	,,	1010 4	997 7		23 3	16 2	10 5	12 7	49		3 6		5 3	0	0	25	1	13	6	2	0	0	0	3	3	0
	1730	,,	1010 6	997 7		19 2	15 5	12 6	14 6	67	.	3 5		2 9	0	0	13	1	9	3	0	0	0	0	0	15	0
	2030	,,	1012 4	999 4		15 2	13 7	12 5	14·5	84		3 1		2 7	0	0	9	0	6	2	0	0	0	1	0	19	0
	2330	,,	1012 9	999 7	.	13 8	13 0	12 3	14 3	90		3 3		3 7	0	1	8	0	4	3	1	0	0	1	0	19	0
Digboi	0830	152	1017·4	999 4	..	16 6	14 8	13 4	15·4	82	.	2 4		4 1	0	0	26	0	3	4	2	6	2	3	6	2	0
	1730	,,	1013 3	995 6		20 3	17 6	15 8	17 9	76		1 0		3 4	0	0	23	5	3	5	1	0	1	5	3	5	0
North Lakhimpur	0830	102	1015 6	1003 6	+0 4	17 8	15 0	12 8	14 8	73	—6	3 4	—0 8	4 1	0	0	21	2	8	7	2	2	0	0	0	7	0
	1130	,,	1014 0	1002 2		21 7	16 3	12 2	14 2	57		3 0		6 7	0	0	27	1	10	11	2	3	0	0	0	1	0
	1430	,,	1011 0	999 3		22 7	16 6	11 9	13 9	53		3 8	.	6 8	0	0	25	5	5	7	3	3	1	0	1	3	0
	1730	,,	1011 2	999.4	.	18·8	16 0	13 9	15 9	75		3 7		2 5	0	0	12	6	3	1	0	0	0	1	1	16	0
Sibsagar	0830	97	1015 6	1004 2	—0 6	17 6	15 4	13 7	15 7	79	—9	3 2	—2 6	2 6	0	0	14	1	9	1	0	1	2	0	0	14	0
	1730	,,	1010 4	999 4		22 2	17 2	13 6	15 6	59		3 4	.	2 5	0	0	14	7	7	0	0	0	0	0	0	14	0
Gohpur	0830	83			.	16 5	14 8	13 5	15 5	82		3 0		4 4	0	0	25	0	13	3	6	1	0	0	2	3	0
	1730	7				20 2	16 5	13 8	15 8	67		3 6 (o)		3 2 (o)	0	0	22	0	13	3	5	0	0	2	1	6	0
Majbat	0830		.	.	.	17 6	15 5	13 9	15 9	79	.	3 3		3 6	0	0	14	0	8	1	5	0	0	0	0	2	0
	1730					.					.			.	.		..										
Jorhat (Aerodrome)	0530	90	1012 8	1002 2	.	12 3	12 1	11 9	13·9	97		3 4		2 0	0	0	6	0	1	3	1	0	0	0	1	22	0
	0830	,,	1014 9	1004 5		17 3	15 5	14 1	16 1	83		3 2		4 2	0	0	15	0	11	1	0	1	0	1	1	13	0
	1130	,,	1013 3	1003 0	.	22 0	17 2	13 8	15 8	61		2 8	.	8 9	0	2	22	3	17	1	0	1	0	0	2	4	0
	1730	,,	1010 1	999 9		19 5	16 1	13 5	15·5	69	.	3 1		3 1	0	0	11	1	9	0	0	0	0	0	1	17	0
	2330	,,	1012·7	1002 1	..	14 2	13 6	13 1	15 1	93		2 3		1 3	0	0	5	2	3	0	0	0	0	0	0	23	0
Tangla	0830	78	1014 9	1005 7		17·6	15 1	13 2	15 2	77		0 5		0 9	0	0	9	0	1	0	7	0	1	0	0	19	0
	1730	,,	1009 5	1000 7	..	22 0	18 6	16 4	18 6	73		0 1		0	0	0	0	0	0	0	0	0	0	0	0	28	0
Tezpur	0830	79	1015 7	1006 3	—1 1	16 4	14 5	13 0	15 0	81	0	1 9	—1 1	4 4	0	0	27	0	21	4	1	0	1	0	0	1	0
	1730	,,	1010 9	1001 7		23 0	16·7	11 9	13 9	52		2 4		1 9	0	0	15	1	10	1	0	0	1	1	1	13	0
Golaghat	0830	95	1014 2	1003 1	.	16·1	14 4	13 1	15 1	83		3 6 (d)															
	1730	,,	1010 3	999 4		23 1	17 0	12 5	14 5	54	.	3 3	.														
Rangia	0830	60	1015 9	1008 8	..	19 0	16 2	14 2	16 2	74		2 1 (e)		6 2 (e)	0	0	28	0	7	18	2	0	0	0	1	0	0
	1730	,,	1011 8	1004 7	.	22 0	17 8	14 9	16 9	66	.	1 8		1 5	0	0	12	2	3	4	1	0	0	0	2	14	0
Chaparmukh	0830	66	1016 2	1008 5	.	17 4	14 9	12 9	14 9	76		1 4 (d)		6 5 (d)	1	0	27	0	1	9	13	4	1	0	0	0	0
	1730	,,	1012 3	1004 6	.	21 8	17 4	14 3	16 3	63	.	1 8		4 2	0	0	26	6	5	4	3	3	2	1	2	1	0

(e) Mean of 26 days, (d) Mean of 27 days (o) Mean of 16 days

Sub-Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas)		Mean wind speed, Km per hour	Wind speed (Km p h)			No. of observations Wind direction									
			At mean sea level or height in g p m of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point				Mean amount	Departure from normal		62 or more	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
North Assam (Including NEFA)—(*Contd*)																											
Goalpara	0830	38	1011 1	1008 2		15 1	13 5	12 2	14 2	84		1 6															
	1730	,,	1010 6	1007 0		20 7	17 0	14 4	16 4	68		2 1															
Gauhati	0830					15 5	15 1	14 8	16 8	96	+17	.															
Gauhati (Bhorjhor)	0230	54	1011 8	1005 4		13 3	12 8	12 4	14 4	94		1 4		2 1	0	0	11	0	3	2	1	3	2	0	0	17	0
	0530	,,	1012 4	1006 0		12 3	12 1	11 9	13 9	97		1 6		1 8	0	0	11	0	5	0	2	3	1	0	0	17	0
	0830	,,	1014 6	1008 3	−0 9	17 3	15 1	13 4	15 4	78	+10	1 6	−1 1	3 7	0	0	19	4	11	1	1	0	0	1	1	9	0
	1130	,,	1013 1	1006 9		22 7	17 2	13 2	15 2	56		1 9		7 2	0	0	28	8	12	1	0	1	0	0	6	0	0
	1430	,,	1009 9	1003 7	.	24 9	17 3	11 5	13 6	45		2 5		6 7	0	0	27	3	11	2	0	0	1	3	7	1	0
	1730	,,	1010 0	1003 8		21 9	16 9	13 2	15 2	60		2 6		3 2	0	0	21	2	7	2	1	1	0	5	3	7	0
	2030	,,	1012 2	1005 9		16 1	15 0	14 2	16 2	88		1 9		3 3	0	0	15	0	3	1	1	5	4	1	0	13	0
	2330	,,	1012 5	1006 1	..	14 5	13 7	13 1	15 1	92		1 6		2 2	0	0	10	0	2	0	1	3	4	0	0	18	0
Dhubri (Rupsi)	0530	45	1012 0	1006 6		11 8	11 3	10 8	12 9	94		1 6		4 4	0	0	19	0	12	5	0	0	0	2	0	9	0
	0830	,,	1014 3	1008 9		17 8	15 2	12 8	14 8	74		1 8		7 3	0	0	25	1	9	10	2	2	0	1	0	3	0
	1130	,,	1013 1	1007 9		23 9	16 9	11 5	13 6	48		1 7		9 0	0	0	28	0	12	8	3	2	2	1	0	0	0
	1730	,,	1009 7	1004 5	.	21 1	17 8	15 6	17 7	72		1 8		5 8	0	1	18	2	4	1	1	2	4	4	1	9	0
Dhubri	0830	35	1015 2	1010 9	−0 6	18 2	15 8	14 0	16 0	77	+1	1 2	−0 8	7 2	0	1	24	1	16	4	1	0	2	1	0	3	0
	1730	,,	1010 9	1006 9		22 8	17 0	12 7	14 7	54		0 7		1 1	0	0	6	0	4	0	0	0	2	0	0	22	0
Lumding	0830	149	1015·0	997 3		13 5	12 4	11 5	13 6	89	+2	1 9	.	1 4	0	0	12	0	1	8	2	1	0	0	0	16	0
	1730	,,	1010 2	993 1	..	22 4	17 7	14 4	16 4	62	.	3 7		1 7	0	0	16	0	1	5	3	3	1	1	2	12	0
South Assam (Including Nagaland, Manipur and Tripura)																											
Tura	0830	370	1014 9	972 2	.	17 3	13 3	9 7	12 0	61		7 6		3 9	0	0	26	0	3	11	9	3	0	0	0	2	0
	1730	,,	1010 2	968 5	..	23 8	15 6	8 5	11 1	38	.	7 1		5 0	0	0	27	1	0	0	2	9	9	6	0	1	0
Haflong	0830	682	1014 5	937 3	..	17 0	13 0	9 8	12 1	63		1 8	.	4 9	0	0	28	4	0	0	0	1	6	0	17	0	0
	1730	,,	1009 8	933 5	..	19 0	13 8	9 7	12 0	56		1 6		4 7	0	0	28	3	0	0	0	0	7	0	18	0	0
Silchar (Kumbhirgram)	0530	97	1011 6	1000 1	..	13 8	12 4	11 2	13 3	85		1 9		9 6	0	1	27	0	0	28	0	0	0	0	0	0	0
	0830	,,	1013 6	1002 3	..	17 6	14 6	12 2	14 2	71		2 1		10 1	0	0	28	0	0	27	1	0	0	0	0	0	0
	1130	,,	1011 6	1000 6	.	23 4	16 9	12 0	14 0	50		2 2	..	7 4	0	0	26	0	1	13	8	2	1	0	0	2	1
	1730	,,	1009 2	998 1		22 3	16 4	11 9	13 9	53		1 7		3 9	0	0	19	2	0	5	2	1	5	3	1	9	0
Silchar	0830	29	1014 8	1011 3	−1 3	18 0	15 5	13 6	15 6	77	0	2 0	−0 3	1 7	0	0	25	0	6	8	7	3	0	1	0	3	0
	1730	,,	1010 7	1007 4	.	23 0	18 1	14 8	16 8	61		1 1		0 6	0	0	8	1	1	0	2	2	0	1	1	20	0
Imphal (Lulihal)	0530	781	1016 7	926 1	.	7 8	7 3	6 8	9 9	94		3 3		1 1	0	1	2	0	3	0	0	0	0	0	0	25	0
	0830	,,	1017 0	927 9	−0 4	13 3	10 9	8 8	11 3	74	+4	3 4	+0 9	2 4	0	0	11	1	4	2	1	1	1	0	1	17	0
	1130	,,	1013 3	926 2	.	19 1	13 4	8 7	11 2	53		3 0		6 6	0	1	23	0	3	0	3	4	7	3	4	4	0
	1430		1009 4	923 4	.	21 6	13 5	6·3	9 5	39		2 9		11 2	0	2	24	0	1	1	2	7	5	8	2	2	0
	1730	,,	1010·7	923 5	.	17 7	12 7	8 5	11 1	56		2 8		7 2	0	0	22	2	0	0	1	0	3	9	7	6	0
	2030	,,	1014 0	925 4		14 0	11 4	9 2	11 6	73	.	2 9		5 2	0	0	16	1	1	1	0	2	8	3	0	12	0
	2330	,,	1015 4	925 9	.	11 4	9 9	8 6	11 2	84		3 0		2 8	0	0	12	2	3	0	0	1	0	4	2	16	0
Kailashahar	0530	30	1013 3	1009 8	..	13 0	12 5	12 0	14 0	94		1 9		1 7	0	0	13	1	0	2	2	6	2	0	0	15	0
	0830	,,	1015 0	1011 5	.	17 6	15 6	14 1	16 1	80		1 8		2 2	0	0	14	0	0	2	0	8	4	0	0	14	0
	1130	,	1013 7	1010 3	.	24 8	18 6	14 4	16 4	57		1 8		4 1	0	0	25	3	5	4	0	2	2	3	6	3	0
	1730	,,	1010 9	1007 6		24 1	18 7	15 1	17 1	60		1 5		0 7	0	0	7	1	0	1	0	1	1	2	1	21	0
Agartala	0230	16	1011·0	1009 1	.	14 4	13 6	12 9	14 9	91		1 6		2 8	0	1	8	0	1	3	2	3	0	0	0	19	0
	0530	,,	1011 5	1009 7		13 7	13 2	12 8	14 8	94		2 1		4 0	0	1	11	0	0	2	3	4	0	1	2	16	0
	0830	,,	1013 6	1011 7	−0 4	20 4	17 3	15 2	17 3	72	+1	2 0	−0 2	4 6	0	0	19	3	3	1	2	5	2	2	1	9	0
	1130	,,	1012 4	1010·6		26 2	18 8	13 7	15 7	47		1 9		9 1	0	0	26	7	0	0	0	4	3	5	7	2	0
	1430	,	1009 8	1008 0		27 2	18 3	11 7	13 7	39		2 1	.	10 6	0	1	26	2	1	1	0	2	4	5	12	1	0
	1730	,,	1009 8	1008 0	.	23 9	17 8	13 5	15 5	53		1 7		3 6	0	0	17	4	2	0	0	3	1	2	5	11	0
	2030	,,	1011 5	1009 6		18 3	16 0	14 2	16 2	77	.	1 3		3 4	0	0	10	0	2	0	2	4	1	1	0	18	0
	2330	,,	1011 7	1009 8	.	16 5	15 1	14 0	16 0	86	.	1·6		4 3	0	0	14	1	3	1	3	5	0	0	1	14	0
Sub-Himalayan West Bengal																											
Bagdogra	0230	131	1012 1	996 5	..	12 0	11 0	10 1	12 3	87	.	1 0		1 8	0	0	9	8	0	1	0	0	0	0	0	19	0
	0530	,,	1012 2	996 5	.	11 3	10 5	9 7	12 0	90		1 5		3 9	0	0	18	11	1	3	2	0	0	0	1	10	0
	0830	,,	1014 3	998 9	0	17 8	14 4	11 6	13 7	67	−4	1 7	−0 1	3 5	0	0	16	4	7	3	2	0	0	0	0	12	0
	1130	,,	1013 3	998 3		23 7	16 2	10 1	12 3	43		2 3		8 3	0	1	27	0	4	7	15	1	0	1	0	0	0
	1730	,,	1009 8	994 8		22 4	16 1	11 1	13 2	49	..	1 9		4 7	0	0	18	1	2	3	2	1	4	5	0	10	0
	2330	,,	1012·5	996 9	.	13 9	12 5	11 3	13 4	84	.	1 2	.	4 8	0	0	20	11	5	2	0	0	1	1	0	8	0

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—FEBRUARY, 1965 (MAGHA, 12—PHALGUNA 9, 1886 SAKA)

Sub-Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g p m of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in, Km per hour	Wind speed (Km. p h): 62 or more	Wind speed (Km. p h): 20 to 61	Wind speed (Km. p h): 1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1012 1	1009 0		25 7	23 5	22 4	27 1	82		2 6		3 4	0	0	18	1	14	0	0	0	1	1	1	10	0
	1730	,,	1009 1	1006 0		26 8	23 3	21·5	25 6	74		3 3		10·1	0	0	24	2	14	3	2	0	1	0	2	4	0
Long Island	0830	25	1012 1	1009 3		27 1	23 9	22 4	27 1	76		3 2		1 3	0	0	17	1	6	3	3	0	0	2	2	11	0
	1730	,,	1009 4	1006 6		26 5	23 4	21 9	26 3	76		3 3		0 5	0	0	8	0	3	4	1	0	0	0	0	20	0
Port Blair	530	79	1010 1	1001 1		23 0	22 0	21 5	25 6	92		3 7		3 9	0	0	17	2	6	4	0	0	1	1	3	11	0
	0830	,,	1012 1	1003 3	—1 2	28 4	24 1	22 1	26 6	68	—3	3 6	+0 7	10 4	0	1	25	4	17	3	1	0	0	1	0	2	0
	1130	,,	1010 7	1001 9		30 1	24 5	21 8	26 1	62		2 9		12 0	0	3	25	1	15	10	2	0	0	0	0	0	0
	1730	,,	1009 3	1000 4		26 5	23 3	21 7	25 9	75		3 3		8 1	0	1	25	1	13	4	1	0	1	0	1	2	0
	2330	,,	1010 8	1001 8		24 4	22 8	22 0	26 4	86		2 9		4 6	0	0	18	0	13	2	0	0	2	1	0	10	0
Car Nicobar	0830	10	1011 3	1010 2		28 4	24 7	22 9	27 9	73		3 5		3 3	0	0	25	0	24	1	0	0	0	0	0	3	0
	1730	,,	1008 5	1007 3		27 4	24 3	22·9	27 9	76		3 7		1 9	0	0	15	0	15	0	0	0	0	0	0	13	0
Nancowry	0830	26	1011 3	1008 4		29 0	25 5	23 9	29 7	74		3 8		0 6	0	0	2	0	0	1	0	0	1	0	0	26	0
	1730	,,	1008 1	1005 2		28 4	25 1	23 7	29 3	75		3 8		0	0	0	0	0	0	0	0	0	0	0	0	28	0
Kondul	0830	8	..			27 6	25 2	24 1	30 0	81		4 2		.	.							.	.			..	.
	1730	,,	.			27 3	25 0	23 9	29 7	82	..	3 8	.	..		.		.	..	.			.	.	.	..	
North Assam (Including NEFA)																											
Pasighat	0830	157	1015 5	997 1		16 4	14 2	12 4	14 4	77		4 0		16·5	0	12	14	3	0	0	0	0	0	0	23	2	0
	1730	,,	1011 3	993 1		17 7	15 3	13 5	15 5	77		4 3		6 5	0	2	21	4	3	1	0	0	0	0	15	5	0
Dibrugarh (Mohanbari)	0230	111	1012 4	999 2		12 7	12 1	11 6	13 7	92		3 5		2 7	0	1	7	0	3	3	1	0	0	1	0	20	0
	0530	,,	1013 0	999 8		11 9	11 4	10 9	13 0	93		3 9		2 2	0	0	10	1	3	4	0	0	0	2	0	18	0
	0830	,,	1015 2	1002 1	—1 3	16 9	14 4	12 4	14 4	75	—10	3 5	—0.9	5 9	0	0	27	0	14	13	0	0	0	0	0	1	0
	1130	,,	1013 6	1000 7		21 2	15 7	11 3	13 4	55		3 5	.	6 6	0	0	28	4	15	8	0	0	0	0	0	0	1
	1430	,,	1010 4	997 7	.	23 3	16 2	10 5	12 7	49	.	3 6		5 3	0	0	25	1	13	6	2	0	0	0	3	3	0
	1730	,,	1010 6	997 7		19 2	15 5	12 6	14 6	67	.	3 5		2 9	0	0	13	1	9	3	0	0	0	0	0	15	0
	2030	,,	1012 4	999 4		15 2	13 7	12 5	14 5	84		3 1		2 7	0	0	9	0	6	2	0	0	0	1	0	19	0
	2330	,,	1012 9	999 7		13 8	13 0	12 3	14 3	90	.	3 3		3 7	0	1	8	0	4	3	1	0	0	1	0	19	0
Digboi	0830	152	1017·4	999 4	.	16 6	14 8	13 4	15 4	82	.	2 4		4 1	0	0	26	0	3	4	2	6	2	3	6	2	0
	1730	,,	1013 3	995 6		20 3	17 6	15 8	17 9	76		1 0		3 4	0	0	23	5	3	5	1	0	1	5	3	5	0
North Lakhimpur	0830	102	1015 6	1003 6	+0 4	17 8	15 0	12 8	14 8	73	—6	3 4	—0.8	4 1	0	0	21	2	8	7	2	2	0	0	0	7	0
	1130	,,	1014 0	1002 2		21 7	16 3	12 2	14 2	57		3 0		6 7	0	0	27	1	10	11	2	3	0	0	0	1	0
	1430	,,	1011 0	999 3		22 7	16 6	11 9	13 9	53		3 8		6 8	0	0	25	5	5	7	3	3	1	0	1	3	0
	1730	,,	1011 2	999 4		18 8	16 0	13 9	15 9	75		3 7		2 5	0	0	12	6	3	1	0	0	0	1	1	16	0
Sibsagar	0830	97	1015 6	1004 2	—0 6	17 6	15 4	13 7	15 7	79	—9	3 2	—2 6	2 6	0	0	14	1	9	1	0	1	2	0	0	14	0
	1730	,,	1010 4	999 4	.	22 2	17 2	13 6	15 6	59		3 4	.	2 5	0	0	14	7	7	0	0	0	0	0	0	14	0
Gohpur	0830	83				16 5	14 8	13 5	15 5	82		3 0		4·4	0	0	25	0	13	3	6	1	0	0	2	3	0
	1730	7	.	.		20 2	16 5	13 8	15 8	67		3 6		3 2	0	0	22	0	13	3	5	0	0	2	1	6	0
Majbat	0830				.	17 6	15·5	13 9	15 9	79		3 3 (o)		3 6 (o)	0	0	14	0	8	1	5	0	0	0	0	2	0
	1730					.					.			.			.							.		.	
Jorhat (Aerodrome)	0530	90	1012 8	1002 2		12 3	12 1	11 9	13 9	97		3 4		2 0	0	0	6	0	1	3	1	0	0	0	1	22	0
	0830	,,	1014 9	1004 5		17 3	15·5	14 1	16 1	83		3 2		4 2	0	0	15	0	11	1	0	1	0	1	1	13	0
	1130	,,	1013 3	1003 0	.	22 0	17 2	13 8	15 8	61		2 8	.	8 9	0	2	22	3	17	1	0	1	0	0	2	4	0
	1730	,,	1010 1	999 9	.	19 5	16 1	13 5	15 5	69		3 1	.	3 1	0	0	11	1	9	0	0	0	0	0	1	17	0
	2330	,,	1012 7	1002 1	..	14 2	13 6	13 1	15 1	93		2 3		1 3	0	0	5	2	3	0	0	0	0	0	0	23	0
Tangla	0830	78	1014 9	1005 7		17 6	15 1	13 2	15 2	77		0 5		0 9	0	0	9	0	1	0	7	0	1	0	0	19	0
	1730	,,	1009 5	1000 7		22 0	18 6	16 4	18 6	73		0 1	.	0	0	0	0	0	0	0	0	0	0	0	0	28	0
Tezpur	0830	79	1015 7	1006 3	—1 1	16 4	14 5	13 0	15 0	81	0	1 9	—1 1	4 4	0	0	27	0	21	4	1	0	1	0	0	1	0
	1730	,,	1010 9	1001 7		23 0	16 7	11 9	13 9	52		2 4		1 9	0	0	15	1	10	1	0	0	1	1	1	13	0
Golaghat	0830	95	1014 2	1003 1	.	16 1	14 4	13 1	15 1	83		3 6 (d)															
	1730	,,	1010 3	999 4		23 1	17 0	12 5	14 5	54		3 3	.									.					.
Rangia	0830	60	1015 9	1008 8	..	19 0	16 2	14 2	16 2	74		2 1 (e)		6 2 (e)	0	0	28	0	7	18	2	0	0	0	1	0	0
	1730	,,	1011 8	1004 7		22 0	17·8	14 9	16 9	66		1 8		1 5	0	0	12	2	3	4	1	0	0	0	2	14	0
Chaparmukh	0830	66	1016 2	1008 5		17 4	14·9	12 9	14 9	76		1 4 (d)		6 5 (d)	1	0	27	0	1	9	13	4	1	0	0	0	0
	1730	,,	1012 3	1004 6	.	21 8	17 4	14 3	16 3	63		1 8	.	4 2	0	0	26	6	5	4	3	3	2	1	2	1	0

(e) Mean of 26 days, (d) Mean of 27 days (o) Mean of 16 days

Sub-Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas)		Mean wind speed, Km per hour	Wind speed (Km p h)			No of observations									
			At mean sea level or height in g p m of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point				Mean amount	Departure from normal		62 or more	20 to 61	1 to 19	Wind direction								Calm	Variable
																		N	NE	E	SE	S	SW	W	NW		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
North Assam (Including NEFA)—(*contd*)																											
Goalpara	0830	38	1011 1	1008 2		15 1	13 5	12 2	14 2	84		1 6											.		.	.	.
	1730	,,	1010 6	1007 0		20 7	17 0	14 4	16 4	68		2 1													.		
Gauhati	0830					15 5	15 1	14 8	16 8	96	+17										.		.		.		
Gauhati (Bhorjhor)	0230	54	1011 8	1005 4		13 3	12 8	12 4	14 4	94		1 4		2 1	0	0	11	0	3	2	1	3	2	0	0	17	0
	0530	,,	1012 4	1006 0		12 3	12 1	11 9	13 9	97		1 6		1 8	0	0	11	0	5	0	2	3	1	0	0	17	0
	0830	,,	1014 6	1008 3	−0 9	17 3	15 1	13 4	15 4	78	+10	1 6	−1 1	3 7	0	0	19	4	11	1	1	0	0	1	1	9	0
	1130	,,	1013 1	1006 9		22 7	17 2	13 2	15 2	56		1 9		7 2	0	0	28	8	12	1	0	1	0	0	6	0	0
	1130	,,	1009 9	1003 7		24 9	17 3	11 5	13 6	45		2 5		6 7	0	0	27	3	11	2	0	0	1	3	7	1	0
	1730	,,	1010 0	1003 8		21 9	16 9	13 2	15 2	60		2 6		3 2	0	0	21	2	7	2	1	1	0	5	3	7	0
	2030	,,	1012 2	1005 9		16 1	15 0	14 2	16 2	88		1 9		3 3	0	0	15	0	3	1	1	5	4	1	0	13	0
	2330	,,	1012 5	1006 1	..	14 5	13 7	13 1	15 1	92		1 6		2 2	0	0	10	0	2	0	1	3	4	0	0	18	0
Dhubri (Rupsi)	0530	45	1012 0	1006 6	.	11 8	11 3	10 8	12 9	94		1 6		4 4	0	0	19	0	12	5	0	0	0	2	0	9	0
	0830	,,	1014 3	1008 9	.	17 8	15 2	12 8	14 8	74		1 8		7 3	0	0	25	1	9	10	2	2	0	1	0	3	0
	1130	,,	1013 1	1007 9		23 9	16 9	11 5	13 6	48		1 7		9 0	0	0	28	0	12	8	3	2	2	1	0	0	0
	1730	,,	1009 7	1004 5	.	21 1	17 8	15 6	17 7	72		1 8		5 8	0	1	18	2	4	1	1	2	4	4	1	9	0
Dhubri	0830	35	1015 2	1010 9	−0 6	18 2	15 8	14 0	16 0	77	+1	1 2	−0 8	7 2	0	1	24	1	16	4	1	0	2	1	0	3	0
	1730	,,	1010 9	1006 9	..	22 8	17 0	12 7	14 7	54		0 7		1 1	0	0	6	0	4	0	0	0	2	0	0	22	0
Lumding	0830	149	1015 0	997 3		13 5	12 4	11 5	13 6	89	+2	1 9		1 4	0	0	12	0	1	8	2	1	0	0	0	16	0
	1730	,,	1010 2	993 1	..	22 4	17 7	14 4	16 4	62		3 7		1 7	0	0	16	0	1	5	3	3	1	1	2	12	0
South Assam (Including Nagaland, Manipur and Tripura)																											
Tura	0830	370	1014 9	972 2	.	17 3	13·3	9 7	12 0	61	.	7 6	.	3 9	0	0	26	0	3	11	9	3	0	0	0	2	0
	1730	,,	1010 2	968 5	..	23 8	15 6	8 5	11 1	38		7 1		5 0	0	0	27	1	0	0	2	9	9	6	0	1	0
Haflong	0830	682	1014 5	937 3	..	17 0	13 0	9 8	12 1	63		1 8	.	4 9	0	0	28	4	0	0	0	1	6	0	17	0	0
	1730	,,	1009·8	933 5	.	19 0	13 8	9 7	12 0	56		1 6		4 7	0	0	28	3	0	0	0	0	7	0	18	0	0
Silchar (Kumbhirgram)	0530	97	1011 6	1000 1	..	13 8	12 4	11 2	13 3	85		1 9		9 6	0	1	27	0	0	28	0	0	0	0	0	0	0
	0830	,,	1013 6	1002 3	..	17 6	14 6	12 2	14 2	71		2 1		10 1	0	0	28	0	0	27	1	0	0	0	0	0	0
	1130	,,	1011 6	1000 6		23 4	16 9	12 0	14 0	50		2 2	.	7 4	0	0	26	0	1	13	8	2	1	0	0	2	1
	1730	,,	1009.2	998 1	.	22 3	16 4	11 9	13 9	53		1 7		3 9	0	0	19	2	0	5	2	1	5	3	1	9	0
Silchar	0830	29	1014 8	1011 3	−1 3	18 0	15 5	13 6	15 6	77	0	2 0	−0 3	1 7	0	0	25	0	6	8	7	3	0	1	0	3	0
	1730	,,	1010 7	1007 4		23 0	18 1	14 8	16 8	61		1 1		0 6	0	0	8	1	1	0	2	2	0	1	1	20	0
Imphal (Tulihal)	0530	781	1016 7	926 1	.	7 8	7 3	6 8	9 9	94		3 3		1 1	0	1	2	0	3	0	0	0	0	0	0	25	0
	0830	,,	1017 0	927 9	−0 4	13 3	10 9	8 8	11 3	74	+4	3 4	+0 9	2 4	0	0	11	1	4	2	1	1	1	0	1	17	0
	1130	,,	1013 3	926 2	..	19 1	13 4	8 7	11 2	53		3 0		6 6	0	1	23	0	3	0	3	4	7	3	4	4	0
	1430		1009 4	923 4	.	21 6	13 5	6 3	9 5	39		2 9		11 2	0	2	24	0	1	1	2	7	5	8	2	2	0
	1730	,,	1010 7	923 5	.	17 7	12 7	8 5	11 1	56		2 8		7 2	0	0	22	2	0	0	1	0	3	9	7	6	0
	2030	,,	1014 0	925 4		14 0	11 4	9 2	11 6	73		2 9		5 2	0	0	16	1	1	1	0	2	8	3	0	12	0
	2330	,,	1015 4	925 9	.	11 4	9 9	8 6	11 2	84		3 0	.	2 8	0	0	12	2	3	0	0	1	0	4	2	16	0
Kailashahar	0530	30	1013 3	1009·8	.	13 0	12 5	12 0	14 0	94		1 9		1 7	0	0	13	1	0	2	2	6	2	0	0	15	0
	0830	,,	1015 0	1011 5	.	17 6	15 6	14 1	16 1	80		1 8		2 2	0	0	14	0	0	2	0	8	4	0	0	14	0
	1130	,	1013 7	1010 3	..	24 8	18 6	14 4	16 4	57	.	1 8	.	4 1	0	0	25	3	5	4	0	2	2	3	6	3	0
	1730	,,	1010 9	1007·6	.	24 1	18 7	15 1	17 1	60		1 5		0 7	0	0	7	1	0	1	0	1	1	2	1	21	0
Agartala	0230	16	1011·0	1009·1		14 4	13 6	12 9	14 9	91		1 6		2 8	0	1	8	0	1	3	2	3	0	0	0	19	0
	0530	,,	1011 5	1009 7		13 7	13 2	12 8	14 8	94		2 1		4 0	0	1	11	0	0	2	3	4	0	1	2	16	0
	0830	,,	1013 6	1011·7	−0 4	20 4	17 3	15 2	17 3	72	+1	2 0	−0 2	4 6	0	0	19	3	3	1	2	5	2	2	1	9	0
	1130	,,	1012·4	1010·6		26 2	18 8	13 7	15 7	47		1 9		9 1	0	0	26	7	0	0	0	4	3	5	7	2	0
	1430	,	1009 8	1008 0		27 2	18 3	11 7	13 7	39		2 1		10 6	0	1	26	2	1	1	0	2	4	5	12	1	0
	1730	,,	1009 8	1008 0	.	23 9	17 8	13 5	15 5	53	.	1 7		3 6	0	0	17	4	2	0	0	3	1	2	5	11	0
	2030	,,	1011 5	1009 6		18 3	16 0	14 2	16 2	77		1 3		3 4	0	0	10	0	2	0	2	4	1	1	0	18	0
	2330	,,	1011 7	1009 8		16 5	15 1	14 0	16 0	86		1 6		4 3	0	0	14	1	3	1	3	5	0	0	1	14	0
Sub-Himalayan West Bengal																											
Bagdogra	0230	131	1012 1	996 5	..	12 0	11 0	10 1	12 3	87	.	1 0		1 8	0	0	9	8	0	1	0	0	0	0	0	19	0
	0530	,,	1012 2	996 5	.	11 3	10.5	9 7	12 0	90	.	1 5	..	3 9	0	0	18	11	1	3	2	0	0	0	1	10	0
	0830	,,	1014 3	998 9	0	17 8	14.4	11 6	13 7	67	−4	1 7	−0 1	3·5	0	0	16	4	7	3	2	0	0	0	0	12	0
	1130	,,	1013 3	998 3		23 7	16 2	10 1	12 3	43		2 3	.	8 3	0	1	27	0	4	7	15	1	0	1	0	0	0
	1730	,,	1009 8	994.8		22 4	16 1	11 1	13 2	49		1 9	.	4.7	0	0	18	1	2	3	2	1	4	5	0	10	0
	2330	,,	1012 5	996 9	.	13 9	12 5	11 3	13 4	84		1 2	.	4 8	0	0	20	11	5	2	0	0	1	1	0	8	0

Sub-Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas)		Mean wind speed, in Km per hour	Wind speed (Km. p h)			No of observations										
			At mean sea level or height in g p m of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point				Mean amount	Departure from normal		62 or more	20 to 61	1 to 19	Wind direction								Calm	Variable
																		N	NE	E	SE	S	SW	W	NW		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Sub-Himalayan West Bengal—(*Contd*)																											
Jalpaiguri	0830	83	1014 3	1004 6	—0 9	14 9	13 6	12 5	14 5	85	+5	1 2	—0 5	3 3	0	0	24	11	5	3	0	0	0	1	4	4	0
	1730	,,	1009 7	1000 3		23 6	17 0	12 0	14 0	50		0 8		1 9	0	0	9	2	2	1	1	0	1	2	0	19	0
Cooch Behar	0830	43	1014 6	1009 6		17 5	14 9	12 9	14 9	74		1 8		6 7	0	0	23	0	9	12	1	0	0	0	0	5	1
	1130	,,	1013 5	1008 6		23 6	17 3	12 7	14 7	51		1 5		9 4	0	1	27	0	5	15	6	1	0	0	0	0	1
	1730	,,	1010 4	1005 5		21 8	17 1	13 7	15 7	61		1 5		1 5	0	0	6	0	2	1	0	0	0	2	0	22	1
Baluighat	0830	26	1013 2	1010 1		18 8	14 5	10 9	13 0	61		0 8		2 0	0	0	15	1	3	1	1	1	2	3	3	13	0
	1730	,,	1009 5	1006 6		23 4	17 2	12 6	14 6	51		0 6		1 4	0	0	11	0	0	0	0	0	8	3	0	17	0
Malda	0830	31	1014 4	1010 7	—1.1	18 9	14 3	10 4	12 6	59	—12	1 2	—0 2	2 0	0	0	22	6	1	0	2	2	2	3	6	6	0
	1730	,,	1010 1	1006 5		24 9	16 7	10 1	12 3	40		1 1		1 6	0	0	16	1	1	0	1	0	0	5	8	12	0
Gangetic West Bengal																											
Berhampore	0830	19	1014 3	1012 1	—1 0	19 3	15 7	12 9	14 9	68	—2	1 4	—0 8	1 1	0	0	14	1	0	0	0	3	2	8	0	14	0
	1730	,,	1009 9	1007 2		25 1	18 3	13 5	15 5	49		1 1	.	0 3	0	0	4	0	0	1	0	0	1	1	1	24	0
Suri .	0830	..		..		20 7	14 7	9 5	11 9	49	.	0 8		2 9	0	0	28	5	1	2	0	7	2	10	1	0	0
Asansol . .	0230	126	1012 3	997 4	.	14 8	12 3	10 0	12 3	73		0 6	.	2 1	0	0	11	0	0	0	2	1	0	4	4	17	0
	0530	,,	1012 8	997 9	.	13 8	11 7	10 1	12 3	78		1 5	.	2 6	0	0	12	1	0	0	0	0	1	7	3	16	0
	0830	,,	1014 8	1000 1	—0 3	19 7	14 6	10 3	12 5	54	—9	0 9	—1 2	5 7	0	0	28	4	2	0	2	0	1	7	12	0	0
	1130	,,	1013 6	999 3		26 6	16 5	7 9	10 7	31	.	0 7		7 3	0	0	27	5	3	1	1	3	1	4	9	1	0
	1430	,,	1010 3	996 1		28 6	17 0	7 0	10 0	26		1 5		8 5	0	1	27	5	2	0	3	0	1	6	11	0	0
	1730	,,	1010 2	995 8		24 8	16 7	10 3	12 5	40		1 7		4 1	0	1	17	2	1	0	2	0	1	3	9	10	0
	2330	,,	1012 9	998 1		16 4	13 4	10 8	12 9	70		0 6		2 4	0	0	13	0	2	0	1	0	0	5	5	15	0
Shanti Niketan .	0830	59	1014 7	1007 9		20 1	14 8	10 3	12 5	54		1 1		3 4	0	0	19	2	2	0	1	0	3	2	9	9	0
	1130	,,	1014 0	1007 3		26 3	16 3	7 6	10 4	31		1 0		3 8	0	0	25	4	6	1	0	2	3	3	6	3	0
	1730	,,	1010 3	1003 5		24 8	17 1	11 1	13 2	43		1 1		2 1	0	0	13	3	1	0	1	2	1	3	2	15	0
Krishnanagar .	0830	15	1013 8	1012 1	—1 5	20 2	16 0	12 8	14 8	63	—10	0 7	—1 5	1 2	0	0	11	1	1	0	0	5	0	0	4	17	0
	1730	,,	1010 2	1008 6		25 3	17 9	12 5	14 5	44		0 3		0 1	0	0	1	1	0	0	0	0	0	0	0	27	0
Purulia . .	0830	255	1015 0	985 6	—0 4	18 8	13 9	9 6	11 9	55	+2	1 4	+0 2	3 2	0	0	25	3	1	1	1	2	3	8	6	3	0
	1730	,,	1010 4	981 8		26 1	17 3	10 4	12 6	37		2 0		2 0	0	0	15	4	1	0	0	1	3	6	0	13	0
Bankura . .	0830	100	1014 3	1002 7		19 3	15 0	11 5	13 6	60		1 0		1 0	0	0	14	1	2	1	0	0	1	5	4	14	0
	1730	,,	1009 3	998 0		27 1	18 0	11 1	13 2	38		0 8		0 9	0	0	13	0	2	1	0	0	5	3	2	15	0
Burdwan	0830	32	1014 4	1010 6	—0 9	21 4	15 7	11 1	13 2	54	—13	1 0	—1 3	0 8	0	0	5	1	2	0	0	0	0	0	2	23	0
	1730	,,	1009 9	1006 3	.	26 9	18 0	11 3	13 4	38		0 5		1 4	0	0	7	0	1	0	0	3	2	1	0	21	0
Barrackpore (Aerodrome) .	0530	7	1012 4	1011 6	.	15 3	14 5	13 9	15 9	91		1 9		2 2	0	0	10	1	2	0	0	2	5	0	0	18	0
	0830	,,	1014 0	1013 2	—0 7	20 4	17 2	15 0	17 0	71	+2	1 6	—0 2	5 3	0	0	22	5	3	3	1	2	2	5	1	6	0
	1130	,,	1013 8	1013 0		26 9	17 8	10 9	13 0	42		1 1		7 9	0	0	27	9	1	3	0	1	4	7	2	1	0
	1730	,,	1010 6	1009 8		25 4	19 2	15 1	17 1	53		1 1		4 3	0	0	16	3	2	1	0	2	2	2	4	12	0
	2330	,,	1012 7	1011 9		17 2	15 7	14 6	16 6	85		1 0		2.1	0	1	5	2	0	0	0	1	3	0	0	22	0
Calcutta (Dum Dum)	0230	6	1011 5	1010 9		16 5	15 7	15 1	17 1	92		1 2	.	1 7	0	0	9	2	0	0	0	0	6	0	1	19	0
	0530	,,	1011 9	1011 2		15 8	15 0	14 4	16 4	91		2 0		1 9	0	0	13	2	0	0	0	2	5	2	2	15	0
	0830	,,	1014 1	1013 4	—0 7	20 7	17 4	15 1	17 1	71	+1	1 1	—0 8	3 7	0	0	26	4	8	0	0	5	4	0	5	2	0
	1130	,,	1013 3	1012 6		27 1	19 3	14 1	16 1	43	.	1 3		5 9	0	0	28	5	2	1	3	2	5	1	9	0	0
	1430	,,	1010 3	1009 6		28 8	20 4	15 1	17 1	43		1 3		6 3	0	0	28	5	2	1	1	2	3	3	11	0	0
	1730	,,	1010 3	1009.6		25 7	19 9	16 3	18 5	56		1 5	.	2 9	0	0	16	5	1	0	1	2	3	1	3	12	0
	2030	,,	1011 9	1011 2		19 8	17 8	16 5	18 8	81		0 7		1 9	0	0	12	1	3	0	2	3	2	0	1	16	0
	2330	,,	1012 2	1011 5	.	18 0	16 9	16 1	18 3	89		1 2	.	1 9	0	0	12	1	2	0	0	5	3	0	1	16	0
Calcutta .	0830	6	1013 9	1013 1	—1 3	22 0	17 5	14 3	16 3	62	—17	1 0	—1 3	2 3	0	0	17	2	4	0	1	2	5	0	3	11	0
	1130	,,	1012 8	1012 1	.	27 8	18 1	10 7	12 9	35		1 0		3 2	0	0	25	6	2	0	1	4	5	1	6	3	0
	1730	,,	1009 9	1009 2		26 1	17 9	11 7	13 8	42		1 2		2 4	0	0	20	3	1	0	1	3	3	1	8	8	0
Midnapore .	0830	45	1014 1	1008 7	—1 2	20 8	15 5	11 2	13 3	54	—10	0 9	—1 1	2 3	0	0	25	5	14	0	0	3	3	0	0	3	0
	1730	,,	1010 0	1004 8		27 3	17 4	9 5	11 9	34		0 8	.	2 6	0	0	17	2	10	0	1	3	0	0	1	11	0
Contai .	0830	11	1013 9	1012 7	0	21 6	18 5	16 5	18 8	73	+5	0.9	—0 3	4 7	0	1	25	17	2	0	1	2	2	2	0	2	0
	1730	,,	1010 2	1009 0		24 9	20 1	17 2	19 6	63		1 5		6 9	0	1	25	2	0	2	0	20	2	0	0	2	0
Sagar Island .	0830	3	1013 5	1013 2	—1 4	22 6	19 8	18 1	20 8	76	—2	1 4	—1 2	12 3	0	4	24	8	8	1	1	1	5	1	3	0	0
	1730	,,	1010 1	1009 8		24 7	20 4	17 9	20 5	67	.	1 8	.	12 3	0	5	23	2	3	0	3	10	8	1	1	0	0
Sandheads .	0530	10	1011 0	1009 9		23 1	20 4	18 9	21 8	77	.	1 6		10 1	0	2	22	8	4	2	0	0	6	3	1	4	0
	0830	,,	1013 7	1012 6	—1 5	25 2	21 6	19 6	22 8	71	+1	1 9	+0 1	9 9	0	4	18	2	1	2	4	5	6	1	1	6	0
	1130	,,	1013 6	1012 5		38 1	22 5	19 5	22 4	60		1 1	..	9 9	0	1	26	6	9	0	0	3	5	2	2	1	0
	1730	,,	1010 2	1009 1		25 3	21 0	18 5	21 3	66	.	1 3	..	10 4	0	0	26	4	7	2	2	0	7	3	1	2	0
	2330	,,	1011 8	1010 8		23 5	20 5	18 8	21 7	75	..	0 6		10 3	0	4	20	3	0	2	4	5	7	2	1	4	0

Sub-Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g p m of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km per hour	Wind speed (Km p h): 62 or more	Wind speed (Km p h): 20 to 61	Wind speed (Km p h): to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa																											
Baripada	0830	54	1015 2	1008 9		20 4	16 2	13 0	15 0	62		0 7		4 1	0	0	24	11	7	0	1	1	0	1	3	4	0
	1730	,,	1010 8	1004 7		26 3	19 5	15 1	17 1	51		1 0		1 8	0	0	12	1	2	3	3	2	1	0	0	16	0
Jharsuguda	0230	230	1011 6	984 7		16 9	13 7	11 0	13 1	69		0 5		1 1	0	0	5	2	1	2	0	0	0	0	0	23	0
	0530	,,	1012 1	985 2		14 9	12 5	10 3	12 5	75		0 6		2 3	0	0	12	3	8	0	0	0	0	0	1	16	0
	0830	,,	1014 2	987 7	−0 4	19 8	14 4	9 7	12 0	53	−3	1 1	−0 2	7 6	0	0	24	9	9	4	1	0	0	0	1	4	0
	1130	,,	1013 0	987 1		26 8	16 9	8 7	11 2	33		1 0		7 1	0	0	24	4	6	1	3	2	3	4	1	4	0
	1730	,,	1009 3	983 5		27 8	17 2	8 4	11 0	30		1 3		5 6	0	0	21	2	3	0	1	3	6	4	2	7	0
	2330	,,	1012 2	985 7		19 3	14 7	10 9	13 0	59		0 6		2 6	0	0	11	3	2	3	1	1	0	0	1	17	0
Keonjhargarh	0830	463	1014 6	962 3		20 3	16 2	13 5	15 5	67		0 3	.	1 5	0	0	20	7	6	0	0	0	0	4	3	8	0
	1730	,,	1009 8	958 6	.	26 0	18 2	13 2	15 2	46		0 8		1 7	0	0	23	3	1	1	1	2	0	12	3	5	0
Balasore	0830	20	1013 9	1011 6	−1 3	21 5	17 3	14 3	16 3	65	−4	1 6	−0 4	5 5	0	0	24	15	1	0	0	2	3	0	3	4	0
	1730	,,	1010 2	1007 9		24 9	20 0	17 0	19 0	62		2 0	.	5 1	0	0	27	0	0	1	11	15	0	0	0	1	0
Sambalpur	0830	148	1013 6	996 6	−1 4	22 4	16 8	12 6	14 6	55	−10	0 5	−1 2	3 3	0	0	25	7	10	4	2	1	0	1	0	3	0
	1730	,,	1009.6	992 9		26 8	18 5	12 5	14 5	41		0 4		0 4	0	0	5	0	1	0	0	0	0	2	2	23	0
Angul	0830	139	1014 6	998 5	−0 3	20 6	17 6	15 6	17 7	73	+6	2 2	−0 2	4 1	0	0	24	2	2	0	0	2	2	10	6	4	0
	1730	,,	1010 1	994 6		28 3	19 4	13 3	15 3	40		1 6		4 1	0	0	27	2	1	6	4	2	1	5	6	1	0
Chandbali	0830	6	1013 7	1013 0	−1 2	22 2	19 5	17 9	20 5	78	+1	2 0	−0 2	3 6	0	0	27	7	2	0	1	1	5	0	11	1	0
	1730	,,	1010 4	1009 7		25 1	20 0	16 9	19 3	61		1 6		8 3	0	2	26	0	5	5	14	1	3	0	0	0	0
Bolangir	0830	190	1013 9	992 0		22 1	17 2	13 7	15 7	59		0 3		5 1	0	0	28	7	6	0	3	6	3	0	3	0	0
	1730	,,	1009 4	988 1		28 5	19 4	13 1	15 1	39		1 6		4 1	0	0	28	7	7	2	0	4	4	1	3	0	0
Phulbani	0830	464	1013 0	960 0	.	17 7	15 6	14 2	16 2	79		0 1		0 0	0	0	0	0	0	0	0	0	0	0	0	28	0
	1730	,,	1008 4	957 1		25 7	19 1	15 2	17 3	53		1 0	.	0 3	0	0	2	0	1	0	0	0	0	1	0	26	0
Cuttack	0830	27	1014 0	1010 9	−1.2	22 0	19 5	18 0	20 6	78	+2	1 4	−0 9	2 3	0	0	14	2	6	0	0	0	2	2	2	14	0
	1730	,,	1009 9	1006 9		29 4	21 1	16 1	18 3	45	.	1 4		5 0	0	0	16	0	1	1	4	7	1	0	2	12	0
Titlagarh	0830	211	1014 1	990 0	.	22 1	17 8	14 8	16 8	63		0		1 8	0	0	23	0	7	3	6	4	2	0	1	5	0
	1730	,,	1009 1	985 9		30 0	19 7	12 5	14 5	35		1 1		2 9	0	0	27	1	18	1	2	1	2	1	1	1	0
Bhubaneswar	0230	46	1011.6	1006 3		20 4	18 7	17 6	20 1	84		1 6		5 5	0	1	21	2	0	1	1	8	4	3	3	6	0
	0530	,,	1011 8	1006 4	.	19 2	18.1	17 4	19 9	89		1 1		5 1	0	0	22	3	1	4	2	2	5	3	2	6	0
	0830	,,	1014 0	1008 7	−0 3	24 1	20.2	17 9	20 5	68	0	1 6	−0 5	8 2	0	2	24	3	9	2	0	0	7	1	4	2	0
	1130	,,	1013 3	1008 1		28 7	20 5	15 3	17 4	41		2 1		10 2	0	4	24	1	3	8	1	2	6	4	3	0	0
	1430	,,	1010 1	1004 9		30 6	19 9	12 6	14 6	33		2 4		9 7	0	3	24	4	2	6	1	5	3	4	2	1	0
	1730	,,	1010 4	1005 1		27 5	19 9	15 0	17 0	47		2 1		13 5	0	8	19	1	0	3	7	10	1	0	5	1	0
	2330	,,	1012 5	1007 1	.	22 1	19 8	18 5	21 3	80		1 2		8 4	0	2	23	2	0	4	4	2	10	2	1	3	0
Puri	0830	6	1013 9	1013 2	−0 9	24 6	21 1	19 1	22 1	72	−4	2 5	+0 5	9 1	0	4	24	11	2	0	1	1	9	2	2	0	0
	1730	,,	1010 3	1009 6		25 8	21 9	19 8	23 1	70	.	2 5		14.5	0	5	23	0	1	1	12	9	5	0	0	0	0
Gopalpur	0530	17	1011 7	1009 7		20 3	18 6	17 5	20.0	84	.	1 6		2 8	0	0	19	4	0	0	0	0	2	2	11	9	0
	0830	,,	1013 6	1011 9	−0 9	23 0	19 9	18 1	20 8	75	+2	1 6	+0 4	3 6	0	0	21	9	1	0	0	1	2	2	6	7	0
	1130	,,	1018.6	1011 6		27 9	22 3	19 3	22 4	60		2 0		8 3	0	3	23	1	0	3	7	7	3	4	1	2	0
	1730	,	1010 4	1008 5		26 2	22 1	19.9	23 2	69	.	2 5		12 9	0	6	22	0	0	2	12	8	6	0	0	0	0
	2330	,,	1012 6	1010 6		23 3	21 0	19 7	22 9	80		2 1		7 6	0	4	12	0	0	0	0	6	10	0	0	12	0
Koraput (R)	0830	913																									
(R)	1730	,,																									
Bihar Plateau																											
Dumka	0830	149	1014 6	997 2	−0 8	18 9	14 2	10 2	12 4	57	−2	1 1	−0.5	3 7	0	0	20	2	0	1	7	1	4	4	1	8	0
	1730	,,	1010 6	993 7		25 1	16 5	9 5	11 9	38	.	0 9		2 5	0	0	14	0	1	1	6	0	3	1	2	14	0
Daltonganj	0830	221	1015 5	989 7	−0 3	17 1	13 2	9 7	12 0	62	−11	0 7	−0 9	1 7	0	0	21	2	2	3	3	6	1	4	0	7	0
	1730	,,	1009 6	984 7		26 2	16 2	7 4	10 3	29		0 9		2 5	0	0	28	3	2	1	0	1	1	9	11	0	0
Hazaribagh	0830	611	1014.2	944 9	−0 5	17 6	11 2	4 9	8 7	45	−15	0 6	−1 6	5 0	0	0	23	1	1	0	2	4	6	2	7	5	0
	1730	,,	1009 9	942 0		22 5	12 4	2 1	7 1	31		1 2		7 9	0	0	27	5	1	0	0	1	0	4	16	1	0
Dhanbad	0830	257	1013 7	984 1	.	19 4	13 3	7 5	10 4	47	.	0 6		1 9	0	0	17	1	0	0	1	0	3	7	4	11	1
	1730	,,	1009 6	980 6	.	24 8	15 8	7 9	10 7	36		1 2		0 7	0	0	7	2	1	0	0	0	0	2	2	21	0
Ranchi	0830	655	1014 3	939 6	−1 1	15 0	10 4	5 9	9 3	55	+1	0 5	−1 6	1 1	0	0	15	2	4	4	0	1	0	0	4	13	0
	1730	,,	1009 5	936 4		20 6	13 9	8 4	11 0	47		1,3		1 3	0	0	19	1	1	3	0	2	0	3	9	9	0
Ranchi (Aerodrome)	0530	652	1012 8	938 4		14 1	10.1	6 2	9 5	60	.	0,9		4 0	0	0	14	7	0	0	0	1	1	1	4	14	0
	0830	,,	1014 1	940 5		17 9	11.9	6 3	9.5	47	.	0 9	.	5.8	0	2	19	6	3	4	0	1	2	1	4	7	0
	1130	,,	1012 7	940 3	.	22 7	13.5	5 1	8 8	32		1,0		10 6	0	4	19	1	3	3	0	4	2	3	7	5	0
	1430	,,	1009 1	937 4	.	24 9	14 0	3 9	8 1	27	.	1 9		15 1	0	6	20	3	0	1	0	2	5	6	9	2	0
	1730	,,	1009 5	937 3		22 8	13.6	5 3	8 9	34	.	1 5		9.9	(	2	24	6	1	2	0	2	1	3	11	2	0

(R) Register not received.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—FEBRUARY, 1965 (MAGHA 12,—PHALGUNA 9, 1886 SAKA)

Sub-Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas)		Wind speed (Km p h)				No of observations									
			At mean sea level or height in g p m of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point				Mean amount	Departure from normal	Mean wind speed, in Km per hour	62 or more	20 to 61	1 to 19	Wind direction N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plateau—(*Contd*)																											
Jamshedpur	0830	129	1014 1	999 0	−1 2	18 1	14 3	11 1	13 2	64	−8	0 7	−1 6	1 3	0	0	17	2	0	1	0	1	0	5	8	11	0
	1730	,,	1009 3	994 9		27 4	17 0	8 3	10 9	30		1 0		1 9	0	0	18	2	3	4	0	0	0	5	4	10	0
Jamshedpur (P B.O)	0530	142	1012 4	995 7		15 0	12 9	11 1	13 2	78		0 9		1 6	0	0	8	0	1	0	0	1	1	2	3	20	0
	0830	,,	1014 7	998 2		19 2	14 6	10 7	12 9	59		1 0		3 4	0	0	17	0	0	0	0	1	3	3	10	11	0
	1130	,,	1013 4	997 3		25 6	16 7	9 5	11 9	37		0 8		5 1	0	0	23	3	1	1	0	1	4	6	7	5	0
	1430	,,	1010 0	994 0		28 1	17 6	9 2	11 6	31		1 4		6 9	0	0	25	3	1	1	0	2	4	2	12	3	0
	1730	,,	1009 5	993 6		26 9	17 2	9 4	11 8	34		1 0		4 6	0	0	22	3	4	1	1	1	1	2	9	6	0
	2330	,,	1012 5	996 1		18 1	14 9	12 4	14 4	70		1 0		1 8	0	0	9	3	0	0	0	0	1	1	4	19	0
Ghaibasa	0830	226	1014 1	987 9	−1 1	18 7	14 7	11 4	13 5	63	−8	0 8	−1 3	1 4	0	0	17	0	2	0	1	0	14	0	0	11	0
	1730	,,	1009 2	983 7		26 8	18 8	13 6	16 6	45		0 7		1 6	0	0	15	0	5	0	0	0	8	0	2	13	0
Bihar Plains																											
Motihari	0830	66	1014 5	1006 7	−0 4	17 2	13 8	10 9	13 0	67	−9	1 0	−0 7	4 0	0	0	24	0	10	2	0	0	3	4	5	4	0
	1730	,,	1010 3	1002 6		23 0	17 5	13 6	15 6	55		0 4		0 5	0	0	3	0	0	0	0	0	0	3	0	25	0
Forbesganj	1630	61	1014 2	1007 0		16 3	13 7	11 5	13 6	73		0 9		3 2	0	0	24	0	4	9	2	0	1	8	0	4	0
	1730	,,	1009 8	1002 8		23 6	16 7	11 3	13 4	47		1 1		2 8	0	0	20	0	0	1	0	0	1	18	0	8	0
Darbhanga	0830	49	1014 8	1009 2	−0 1	20 7	15 2	10 7	12 9	54	−19	1 2	−0 5	1 7	0	0	14	0	2	3	1	0	2	5	1	14	0
	1730	,,	1011 4	1005 7		24 6	17 0	11 1	13 2	45		0 6		0 5	0	0	5	0	0	0	0	1	0	4	0	23	0
Chapra	0830	58	1014 7	1007 9		17 4	12 9	8 7	11 2	58		0 9		2 8	0	0	25	1	2	4	2	0	9	2	5	3	0
	1730	,,	1011 5	1004 8		20 7	15 1	10 5	12 7	55		1 1		3 0	0	0	28	2	1	2	2	0	2	16	3	0	0
Purnea	0830	38	1014 2	1009 8	−1 0	16 8	13 1	9 8	12 1	64	−12	1 2	−0 5	2 1	0	0	19	0	1	6	0	1	6	5	0	9	0
	1730	,,	1009 9	1005 6		23 9	16 2	9 9	12 2	42		0 9		2 4	0	0	19	0	0	2	0	1	7	9	0	9	0
Patna	0830	53	1014 1	1007 9	−1 3	17 4	13 4	9 9	12 2	62	−1	1 5	−0 4	6 6	0	0	25	1	5	0	2	1	8	7	1	3	0
	1730	,,	1010 3	1004 3		24 8	16 5	9 7	12 0	39		0 8		6 1	0	0	25	0	2	1	0	2	1	18	1	3	0
Patna Aerodrome	0530	60	1011 4	1004 5		12 9	10 7	8 5	11 1	75	.	1 7		3 3	0	0	15	0	0	3	2	2	2	5	1	13	0
	0830	,,	1013 9	1006 8		17 4	13 2	9 4	11 8	60	.	1 6		6 1	0	0	21	0	1	1	3	3	5	5	3	7	0
	1130	,,	1013 4	1006 5		24 5	16 0	8 8	11 3	37		0 8		10 6	0	3	23	1	1	3	2	1	3	5	10	2	0
	1430	,,	1010 4	1003 5		26 7	16 2	6 9	9 9	29		1 0		12 3	0	6	20	2	1	1	1	2	0	7	12	2	0
	1730	,,	1010 0	1003 1	.	24 3	16 1	9 3	11 7	38		0 9		3 5	0	0	18	1	0	0	1	0	0	7	9	10	0
	2330	,,	1011 9	1005 0		15 6	12 4	9 4	11 8	67		1 1		2 3	0	0	9	0	0	0	0	2	1	3	3	19	0
Bhagalpur	0530	49	1012.3	1006 5	.	14 6	12 2	10 0	12 3	74		1 5		3 5	0	0	17	0	0	2	1	6	6	2	0	11	0
	0830	,,	1014 7	1009 0	+0 1	18 6	14 2	10 4	12 6	60	−1	1 8	+0 7	3 7	0	1	18	0	0	0	2	4	8	4	1	9	0
	1130	,,	1014 0	1008 4		24 5	16 5	10 1	12 3	41		1 5		6 3	0	1	24	2	1	3	1	1	3	12	2	3	0
	1730	,,	1010 8	1005 2	.	23.3	16 4	10 6	12 8	46		1 3		4 5	0	0	21	0	1	1	0	0	7	9	3	7	0
	2330	,,	1012 6	1006 9	.	17 6	14 4	11 0	13 1	64		1 0		3 9	0	0	18	0	1	2	0	5	6	4	0	10	0
Sabaur	0830	37	1014 6	1010 2	−0 3	16 8	13 6	10 9	13·0	69	−10	2 0	−0 4	3 2	0	0	22	2	1	0	0	1	4	11	3	6	0
	1730	,,	1010 2	1005 9		24 1	18 5	14 7	16 7	51		1 1		3 2	0	0	18	0	0	1	0	0	2	2	19	10	0
Jamui	0830	82	1015 1	1005 5		18 1	15 7	13 9	15 9	77		0 7		3 9	0	0	27	0	0	16	4	0	1	3	3	1	0
	1730	,,	1008 5	999 0		18 7	15 8	13 7	15 7	73		0	.	3 3	0	0	28	0	0	21	0	0	0	7	0	0	0
Dehri	0830	107	1014 6	1002 0		18 9	13 9	9 5	11 9	55	.	1 1		3 5	0	0	28	1	0	1	2	8	7	8	1	0	0
	1730	,,	1009 9	997 7		25 7	15 6	6 3	9 5	29	.	0 8	.	4 6	0	0	28	4	2	2	0	1	0	10	9	0	0
Gaya	0230	116	1012 5	998 8		13 7	11 5	9 4	11 8	75		0 6	.	2 6	0	0	17	0	0	1	3	6	5	1	1	11	0
	0530	,,	1012 6	998 8		12 6	10 7	8 8	11 3	77		0 7		3 1	0	0	21	1	0	0	4	8	4	3	1	7	0
	0830	,,	1014 6	1001 1	−0 6	18 2	13 9	10 1	12 3	58	−2	1 0	−0 8	4 4	0	0	25	0	0	0	4	4	12	3	2	3	0
	1130	,,	1014 1	1000 9		25 6	16 6	9 2	11 7	35		0 7		9 8	0	3	24	3	1	2	2	1	2	6	10	1	0
	1730	,,	1010.5	997 3		25 1	16 4	9 2	11.6	37		0 8	.	5 6	0	0	23	7	1	2	0	0	0	0	13	5	0
	2330	,,	1012 9	999 3	.	16.1	12 4	8 9	11 4	63		0 8		3 1	0	0	19	0	1	0	5	5	4	2	2	9	0
Uttar Pradesh (East)																											
Kheri (R)	0830	147																									
(R)	1730	,,																									
Bahraich	0830	124	1013 8	999 2	−0 7	14 3	11 8	9 3	11 7	73	−1	1 6	0	4 7	0	0	24	0	0	8	0	0	2	13	1	4	0
	1730	,,	1010 1	996 8		23 1	15 9	10 0	12 3	44		2,6		2 9	0	0	13	0	0	2	0	0	1	10	0	15	0
Nautanwa	0830	99	1013 4	1001 6		15 1	12 6	10 1	12 3	73		1 2		2 0	0	0	24	0	2	9	2	3	0	3	5	4	0
	1730	,,	1010 0	998 7		23 5	15 5	9 0	11 5	41		1 1	.	1.4	0	0	19	1		2	0	1	6	5	3	9	0
Hardoi	0830	142	1014 6	997 8	+0 7	14 0	11 2	8 3	10 9	68	−4	0 5	−1.0	3 6	0	0	23	1		3	4	1	2	4	8	5	0
	1730	,,	1012 3	995 9		22 8	14 1	5 2	8 8	33	.	0.8	.	3 1	0	0	26	0	0	5	1	0	3	9	8	2	0

(R) Registers not received.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—FEBRUARY, 1965 (MAGHA 12,--PHALGUNA 9, 1886 SAKA)

Sub-Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g p m of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km p h): 62 or more	Wind speed (Km p h): 20 to 61	Wind speed (Km p h): 1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East)—(*Contd*)																											
Gonda	0830	110	1014 4	1001 4		16 3	12 8	9 6	11 9	66	−9	1 1	−1 1	2 7	0	0	22	0	0	5	0	0	0	10	7	6	0
	1730	,,	1011 2	998 5		22 6	14 9	7 7	10 5	40		1 3		1 5	0	0	15	0	0	1	0	0	0	9	5	13	0
Lucknow	0830	111	1013 6	1001 0	−1 1	14 5	11 9	8 9	11 4	68	0	1 3	−0 7	1 7	0	0	21	0	0	0	1	0	0	20	0	7	0
	1730	,,	1010 4	997 7		24 3	15 1	6 0	9 8	32		2 0		5 0	0	0	21	0	0	1	2	0	0	16	2	7	0
Lucknow (Amausi)	0230	128	1012 0	996 8		12 4	9 9	7 0	10 0	71		1 0		6 3	0	0	26	4	2	2	2	1	0	8	7	2	0
	0530	,,	1011 9	996 6		10 5	8 8	6 8	9 9	79		0 7		4 8	0	0	23	1	3	2	1	0	0	11	5	5	0
	0830	,,	1014 1	998 9	−1 4	14 4	11 1	7 4	10 3	64	−4	1 2	−0 8	7 1	0	4	18	1	1	2	1	1	2	6	8	6	0
	1130	,,	1013 9	999 2		23 3	14 4	5 2	8 8	33		0 9		13 3	0	6	22	0	0	3	2	3	0	10	10	0	0
	1430	,,	1010 9	996 2		25 9	14 8	3 0	7 6	24		1 8		14 3	0	9	19	1	0	2	4	0	0	8	13	0	0
	1730	,,	1010 5	995 9		24 0	14 6	5 2	8 8	31		1 9		7 0	0	0	24	0	1	2	1	0	0	11	9	4	0
	2030	,,	1012 3	997 3		16 3	11 9	7 1	10 1	56		0 8		5 2	0	0	26	1	3	2	1	0	0	12	7	2	0
	2330	,,	1012 9	997 8		14 0	10 7	7 1	10 1	64		0 9		5 4	0	0	25	2	4	3	0	0	0	9	7	3	0
Faizabad	0830	102	1013 6	1001 6		15 2	11 9	8 5	11 1	66		1 4		3 3	0	0	19	0	0	2	4	1	1	8	3	9	0
	1730	,,	1010 5	998 9		23 3	16 0	9 6	11 9	43		2 1		1 9	0	0	12	0	0	0	1	0	1	9	1	16	0
Gorakhpur	0830	77	1014 0	1004 8	−0 9	16 6	12 9	10 2	12 4	63	−8	1 2	−0 3	1 9	0	0	21	0	2	4	0	1	4	9	1	7	0
	1730	,,	1010 8	1001 0	.	24 4	16 0	8 4	11 0	37		1 3		2 4	0	0	21	1	0	3	0	0	1	15	1	7	0
Gorakhpur (P B O)	0230	78	.	1002 3								1 1		2 6	0	0	14	1	2	1	0	3	0	5	2	14	0
	0530	,,		1002 3								0 8		1 9	0	0	12	1	2	0	1	1	0	6	1	16	0
	1130	,,		1004 7								0 7		5 8	0	0	28	0	3	4	4	5	1	9	2	0	0
	1430	,,		1001 7					.			0 7		5 9	0	0	24	1	0	0	6	2	2	11	2	4	0
	2030	,,		1002 7							.	0 8		1 1	0	0	11	1	0	0	0	1	1	6	2	17	0
	2330	,,		1003 0			.	..	.			0 8		1 4	0	0	8	1	2	0	0	1	0	4	0	20	0
Kanpur	0830	126	1013 4	998 4	−2 0	12 9	10 4	7 7	10 5	70	+2	0 9	−0 4	6 6	0	0	23	4	1	6	0	0	0	11	1	5	0
	1730	,,	1011 6	996 3		25 4	15 6	6 7	9 8	30		0 9	.	8 6	0	0	27	3	0	4	0	0	0	18	2	1	0
Kanpur (Aerodrome)	0530	126	1012 1	997 1		11 4	9 0	5 7	9 1	70		0 8		8 3	0	0	22	6	0	4	1	1	0	9	1	6	0
	0830	,,	1014 3	999 4		14 9	11 1	6 1	9 4	60		1 3		10 9	0	0	27	5	0	5	1	1	0	10	5	1	0
	1130	,,	1014 5	999 7		23 2	14 7	5 5	9 0	33	.	0 4		15 1	0	5	23	2	1	0	6	2	1	7	9	0	0
	1730	,,	1010 8	996 5		24 8	14 6	3 3	7 7	27		2 1		13 3	0	1	27	4	1	2	1	0	1	6	13	0	0
	2330	,	1012 9	998 1		15 6	11 3	6 5	9 7	56	.	1 1		10 3	0	1	24	5	1	1	2	0	0	8	8	3	0
Sultanpur	0830	97	1014 7	1003 3	..	15 3	12 0	8 7	11 2	65	..	1 0	.	2 9	0	0	21	1	0	0	6	0	4	6	4	7	0
	1730	,,	1010 8	999 7	.	25 1	15 8	7 6	10 4	36	.	1 1		2 3	0	0	19	1	0	2	1	0	0	11	4	9	0
Azamgarh	0830	78	1014 2	1005 0	..	15 8	12 9	10 2	12 4	71		1 3	.	6 0	0	0	28	2	0	7	0	1	0	18	0	0	0
	1730	,,	1010 5	1001 7		23 9	17 1	12 2	14 2	52		1 2		5 4	0	0	28	0	0	5	0	0	0	23	0	0	0
Fatehpur	0830	114	1014 4	1001 0		16 1	12 2	8 4	11 0	61	−8	0 7	−1 2	7 4	0	0	27	2	1	3	2	2	6	6	5	1	0
	1730	,,	1010 0	997 8	.	25 0	16 4	9 0	11 5	37	..	1 1		8 4	0	0	26	1	1	4	1	0	1	2	16	2	0
Ballia	0830	64	1015 1	1007 5		18 0	14 0	10 6	12 8	63	.	1 6		2 1	0	0	22	0	1	2	2	0	8	7	2	6	0
	1730	,,	1011 4	1004 0	.	23 3	18 0	14 0	16 0	58		1 3	.	11 1	0	0	11	0	0	2	1	0	1	6	1	17	0
Bauda	0830	121	1015 5	1001 3	.	17 3	12 5	7 5	10.4	54	.	1.0		1 2	0	0	12	1	3	0	2	0	4	0	5	16	0
	1730	,,	1011 1	997 5		26 8	16 2	6 9	9 9	28	.	0 8		1 3	0	0	17	1	0	0	0	1	3	0	12	11	0
Allahabad (Bamhrauli)	0230	98	1012 3	1000 3	.	14 2	11 0	7 6	10 4	66	..	0 8		1 1	0	0	7	0	0	2	1	0	1	1	2	21	0
	0530	,,	1012 2	1000 5	.	12 4	10 0	7 4	10 3	71	..	0 6		1 2	0	0	9	0	2	0	0	0	3	2	2	19	0
	0830	,,	1014 3	1002 8	−1 1	15 8	10 2	7 8	10 8	60	−6	1.1	−1 1	3 4	0	0	21	2	1	2	2	2	3	8	1	7	0
	1130	,,	1014 2	1003 0	.	25 1	15 9	7 5	10 4	33	..	0 6		6 4	0	0	28	3	0	3	2	5	0	13	2	0	0
	1130	,,	1011 2	1000 1	.	27 9	16 9	7 2	10.1	28	.	0 9		7 6	0	0	28	4	1	2	0	1	1	17	2	0	0
	1730	,,	1010 5	999 6		25 9	16.1	7 3	10·2	31		1 5	.	4 4	0	0	25	4	3	2	0	0	0	8	8	3	0
	2030	,,	1012 3	1000 9		19'2	13,7	8 4	11 0	51	.	0·9	..	1 3	0	0	12	0	4	1	0	0	0	2	5	16	0
	2330	,,	1012·9	1001 3	.	16 7	12 2	7 6	10·4	57	.	0 7		1 2	0	0	9	.0	1	3	0	0	0	2	3	19	0
Varanasi (Babatpur)	0530	85	1013 2	1003 0		14 6	11 2	7 6	10 4	66	.	0 9		4 0	0	0	18	0	0	0	0	0	8	6	0	10	4
	0830	,	1015 3	1005 1	−0 2	16 7	12 9	9 1	11 5	62	−1	1 3	0	8 3	0	0	24	0	2	3	2	0	10	6	1	4	0
	1130	,,	1014 9	1005 0		23 9	15 9	8 9	11 4	39	.	1 0		12 4	0	0	28	0	1	3	1	2	5	13	1	0	2
	1730	,,	1011 4	1001 5		25 4	16,3	8 1	10 8	35		1 3	.	8 6	0	0	25	0	2	2	0	0	2	17	1	3	1
	2330	,,	1013 5	1003 4		18 0	13 1	8·5	11 1	55	.	0·9	.	4·4	0	0	18	1	1	2	0	1	1	12	0	10	0
Varanasi	0830	76	1014 1	1005 2	−1 2	17 0	12 9	9 0	11 7	61	−8	1 6	−0 3	2 3	0	0	27	0	2	1	5	0	6	12	1	1	0
	1730	,,	1010 1	1001 3		25 7	16 7	9 0	11 0	35		1 5	.	2 3	0	0	27	5	2	1	1	0	0	12	6	1	0
Uttar Pradesh (West)																											
Mukhim	0830		.			6 5	3·2	−1 4	5 4	60	.	3 1		..			.						.		.	.	
	1730		.		.	8 1	4 5	0	6·1	59		4 5		..	.	.	..			..		.	.		..	..	

Sub-Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g p m of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km per hour	Wind speed (Km p h): 62 or more	Wind speed (Km p h): 20 to 61	Wind speed (Km p h): 1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (West) —(*Contd*)																											
Mehri	0830					8 5	7 6	6 8	9 9	89		3 4		0 1	0	0	1	1	0	0	0	0	0	0	0	27	0
	1130					14 1	10 0	6 0	9 3	58		3 6		0 3	0	0	3	1	0	0	0	0	0	0	1	25	1
	1730					17 5	11 4	5 3	8 9	49		3 9		1 9	0	0	15	1	2	1	1	2	4	2	2	13	0
Dehra Dun	0530	682	1013 4	934 3		9 7	8 2	6 5	9 7	81		2 6		0 4	0	0	5	4	0	0	0	1	0	0	0	23	0
	0830	,,	1014 7	935 7	—1 1	10 7	8 7	6 7	9 8	78	+5	2 7	—0 6	1 6	0	0	16	8	1	0	0	0	1	5	1	12	0
	1130	,,	1013 8	936 7		17 4	11 9	6 7	9 8	52		3 7	..	2 4	0	0	21	1	1	2	3	2	6	4	2	7	0
	1730	,,	1010 6	934 0		18 4	12 6	7 4	10 3	51		3 8		2 1	0	0	22	4	0	1	0	3	4	7	3	6	0
	2330	,,	1014 1	935 5		11 8	9 7	7 7	10 5	76		2 5		2 3	0	0	11	7	3	1	0	0	0	0	0	17	0
Mansiari	0830	.				4 5	0 8	—5 2	3 9	49		.		.													
	1730					4 2	1 8	—1 6	5 3	66		.		..													
Roorkee	0830	274	1015 4	982 8	—0 2	11 3	9 3	7 1	10 1	76	—3	3 0	+0 4	1 2	0	0	18	0	0	0	5	0	0	0	13	10	0
	1730	,,	1012 5	980 9		21 0	14 3	8 1	10 8	45		3 1		1 5	0	0	21	0	0	0	4	0	0	0	17	7	0
Najibabad	0830	270	1014 8	982 8		11 1	9 3	7 4	10 3	78		2 5		3 1	0	0	20	0	2	3	2	0	0	10	3	8	0
	1730	,,	1013 2	982 1		19 8	14 6	10 4	12 6	56		3 4		5 0	0	0	27	0	1	5	1	0	0	15	5	1	0
Meerut	0830	222	1015 1	989 0	—0 3	15 0	11 6	8 0	10 7	63	—7	1 0	-1 3	5 2	0	0	23	0	0	1	0	0	0	13	9	5	0
Bareilly	0830	173	1014 0	993 4	—1 2	13 3	11 4	9 6	11 9	79	+4	2 0	—0 3	4 7	0	0	24	0	0	7	1	0	0	9	7	4	0
	1730	,,	1010 8	990 9		21 8	16 4	12 1	14 1	55		2 3		2 6	0	0	22	0	0	6	0	0	2	13	1	6	0
Bareilly (P B O)	0230	172	1012 2	991 8		14 0	11 3	8 4	11 0	70		1 0		4 6	0	0	27	4	4	3	0	0	0	12	4	1	0
	0530	,,	1011 9	991 4		12 6	10 0	7 6	10 4	72		1 3	.	5 1	0	0	27	1	2	7	0	0	0	17	0	1	0
	1130	,,	1014 1	994 0		19 8	13 9	9 2	11 6	52		1 9		6 7	0	0	28	3	4	3	2	0	2	10	4	0	0
	1430	,,	1010 9	991 5		23 5	14 7	7 4	10 3	37	.	2 4		6 7	0	1	27	0	1	3	3	0	1	13	7	0	0
	2030	,,	1012 4	992 2	.	17 5	12 6	8 4	11 0	55		0 9		4 8	0	0	23	1	3	4	0	0	1	14	0	5	0
	2330	,,	1012 9	992 6		15·6	11 8	8 2	10 9	62		1 1	.	4 2	0	0	24	3	0	5	0	0	0	13	3	4	0
Aligarh	0830	187	1014 6	992 0		12 6	10 1	7 3	10 2	71	+3	1 7	—0 3	3 8	0	0	27	3	1	5	0	1	1	12	1	1	0
	1730	,,	1011 6	990 0		22 1	14 7	7 6	10 4	41	.	1 1		3 6	0	0	27	5	3	2	1	1	0	13	2	1	0
Mainpuri	0830	157	1014 1	995 8	—1 0	13 5	10 5	7 3	10 2	67	+1	1 0	—1 2	3 2	0	0	20	0	0	3	3	0	0	10	4	8	0
	1730	,,	1011 6	993 6	.	23 9	15 9	8 5	11 1	39	.	0 8		4 3	0	0	20	0	0	0	2	0	1	16	1	8	0
Agra	0830	169	1015 2	995 2	—0 6	13 7	10 4	6 8	9 9	64	+1	0 9	—1 2	0 3	0	0	1	0	0	1	0	0	0	0	0	27	0
	1730	,,	1011 5	992 2		23 7	15 1	7·7	10 5	39		0 4		1 0	0	0	2	0	1	0	0	0	0	0	1	26	0
Agra (Aerodrome)	0530	169	1013 1	992 8	.	10 0	8 1	6 7	9 8	81	.	0 9		7 1	0	0	21	2	1	3	3	0	0	7	5	7	0
	0830	,,	1014 7	994 7		12·8	10 3	7 5	10 4	71		1 5		9 4	0	0	23	1	1	3	3	0	2	7	6	5	0
	1130	,,	1014 8	995 4		21 6	14 9	8 8	11 3	46	..	2 0		14 0	0	6	21	3	1	0	2	3	4	4	10	1	0
	1730	,,	1011 6	992 0		23 5	15 7	8 4	11 0	40		1 3		10 7	0	3	21	5	0	2	2	0	2	2	11	4	0
	2330	,,	1013 6	993 5		13 9	11 3	8 7	11 2	72		0 6		6 6	0	1	18	2	5	2	1	0	0	1	8	9	0
Orai	0830	141	1015 4	998 8		16 6	12 9	9 5	11 9	64		0 4		3 0	0	0	28	2	12	0	1	0	0	1	12	0	0
	1730	,,	1012 6	996 3		25 0	17 5	11 8	13 8	45		0 3		2 1	0	0	28	3	8	1	0	0	0	1	15	0	0
Jhansi	0830	251	1014 9	985 4	—1 3	14 2	10 4	6 2	9 5	59	+5	0 6	—0 8	0 4	0	0	7	0	0	1	1	1	0	0	4	21	0
	1730	,,	1010 7	982 5		26 8	15 5	4 5	8.2	26		1.2		0 9	0	0	15	0	0	6	0	3	0	0	6	13	0
Punjab (India) (Including Delhi)			(d)			(d)	(d)	(d)		(d)																	
Pathankot	0530	312	1013 3	976 3	.	9 3	8 3	7 2	10 1	87		2 7		2 8	0	0	10	2	4	2	0	2	0	0	0	18	0
	0830	,,	1014 6	977 8	—0 8	11 4	9 4	7 3	10 2	78	+4	3 8	+0 5	3 4	0	0	14	2	7	3	0	2	0	0	0	14	0
	1130	,,	1015 1	979 0		17 5	12 3	6 9	9 9	52		4 1		6 3	0	0	21	2	2	3	3	3	3	4	1	7	0
	1730	,,	1012 5	976 5		18 2	12 7	7 2	10 1	50		4 3		9 9	0	1	26	2	5	2	1	0	2	13	2	1	0
	2330	,,	1015 1	977 9		11 9	10 2	8 3	10 9	80	.	3 6		4 7	0	1	9	1	4	4	0	1	0	0	0	18	0
Bhuntar	0830	1067	1504 7	893 8		4 4	3 9	3 3	7 7	91		3 7		2 2	0	0	16	5	3	4	1	2	0	0	1	12	0
	1130	,,	1511 1	893 7		9 9	6,9	3 7	8 0	65	.	4 2		4 1	0	0	23	1	2	6	6	4	2	0	0	5	2
	1730	,,	1484 6	890 6		11 8	8 0	4 0	8 1	61		5 5		8 6	0	3	21	1	4	0	4	5	0	2	8	4	0
Amritsar (Rajasansi)	0530	234	1013 5	985 4		7 9	7 1	6 0	9 3	88		1 9		4 7	0	1	14	2	1	3	1	1	1	2	4	13	0
	0830	,,	1014·8	986 7	—0·9	9 5	8 2	6 8	9 9	84	—1	3 1	+0 4	3 5	0	0	14	3	1	3	1	0	1	1	4	14	0
	1130	,,	1015 3	988 0		17 8	12 7	7 8	10 6	53		3 4		9 0	0	1	22	2	0	4	4	0	1	1	11	5	0
	1430	,,	1013 1	986 1		20 6	13 6	6 8	9 9	42		3 4		11 1	0	2	24	1	0	3	2	1	3	5	11	2	0
	1730	,,	1012 4	985 3		19 3	13 2	7 2	10 1	48		3 5		10 7	0	2	25	3	1	4	0	1	1	2	15	1	0
	2030	,,	1014 1	986 4	.	13 2	10 5	7 7	10 5	69		2 4		6 7	0	1	18	1	3	2	1	1	0	2	9	9	0
Adampur (Aerodrome)	0830	249	1015 0	985 2		9 1	8 3	7 6	10 4	91		3 5	.	5 0	0	1	13	3	1	2	3	2	0	1	2	14	0
	1730	,,	1012 6	983 8	.	18 2	13 4	8.8	11 3	56	.	3 6		14 3	0	3	23	1	0	3	2	0	0	5	15	2	0
Ludhiana	0830	247	1015 1	985 7	—0 7	11 9	10 0	7 8	10 9	78	+2	3 6	+1 0	2 8	0	0	22	1	2	2	0	3	2	2	10	6	0
	1730	,,	1011 8	983 1		19 9	15 1	10 7	13 3	55		2 7		3 2	0	0	26	3	2	0	4	0	0	1	16	2	0
Ferozepur	0830	200	1015 4	991 6		11 0	9 3	8·0	10 7	89		2.0		2 1	0	0	19	1	6	2	1	0	0	3	6	9	0
	1730	,,	1012 5	989 2		18 9	14 1	9 9	12 2	58	..	1 4		1 6	0	0	17	5	5	2	1	0	0	0	4	11	0

(d) Mean of 27 days

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—FEBRUARY, 1965 (MAGHA 12—PHALGUNA 9, 1886 SAKA)

Sub-Division and Station	Hour of observation I S T	Station elevation in metres	Mean pressure in mill bars: At mean sea level or height in metres of nearest standard isobaric level	Mean pressure in mill bars: At station level	Mean pressure in mill bars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km per hour	Wind speed (Km p h): 62 or more	Wind speed (Km p h): 20 to 61	Wind speed (Km p h): 1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Punjab (India) (Including Delhi)—(*Contd*)																										
Hawara (Aerodrome)	0830	242	1014 9	986 6		10 1	9 0	7 9	10 7	86	..	3 6		6 3	0	0	21	5	1	2	1	2	1	0	9	7
	1730	,,	1012 2	984 5		19 4	13 4	7 4	10 3	47		3 1		11 6	0	2	24	5	0	1	4	1	1	1	13	2
Chandigarh . .	0830	347	1013 1	972 2	−1 4	14 6	10 7	6 5	9 6	60	−6	2 3	+0 8	2 6	0	0	24	0	1	0	11	0	0	0	12	4
	1730	,,	1010 2	970 2		20 1	14 2	8 8	11 3	49		2 6	.	2 8	0	0	25	0	2	0	5	0	0	0	18	3
Ambala . (R)	0830	272																								
(R)	1730	,,																								
Ambala (P B O)	0230	278	1012 8	980 1		13 4	10 3	7 9	10 7	70		2 3		7 4	0	1	22	0	0	2	4	1	0	0	16	5
	0530	,,	1012 4	979 5		12 1	9 6	7 3	10 2	73	..	2 0		7 9	0	2	18	1	0	1	4	0	1	1	12	8
	1130	,,	1014 3	982 1		18 6	13 0	8 3	10 9	53		3 5		9 3	0	1	21	1	1	0	7	0	0	3	10	6
	1430	,,	1011 7	979 9		21 1	13 5	7 1	10 1	42	.	3 7		11 4	0	6	20	1	1	1	4	2	1	9	7	2
	2030	,,	1012 6	980 2		16 9	11 9	7 7	10 5	55	.	2 0		10 1	0	2	22	2	1	1	4	0	1	4	11	4
	2330	,,	1013 4	980 8		14 8	11 0	7 8	10 6	63		2 0		11 1	0	4	22	0	1	3	3	0	1	1	17	2
Ambala (Aerodrome)	0530	274	1012 9	980 2		9 3	8 5	7 3	10 2	88	..	1 9		9 6	0	3	16	1	0	1	3	0	2	2	10	9
	0830	,,	1014 2	981 6		11 2	9 4	7 6	10 4	79		2 9		10 7	0	3	17	0	3	2	2	1	0	0	10	8
	1130	,,	1014 3	982 5		18 9	13 3	7 8	10 6	51		3 3		17 2	0	13	13	1	1	2	5	0	0	3	12	2
	1730	,,	1011 3	979 8	..	20 2	13 2	6 1	9 4	41		2 8		16 7	0	12	12	1	0	2	4	1	0	5	11	4
	2330	,,	1013 7	981 3		12 3	10 0	7 5	10 4	75	.	1 7		11 1	0	2	19	0	0	2	3	0	0	2	13	7
Patiala . . .	0830	251	1014 6	985 1		12 8	10 0	6 9	9 9	69		3 1		8 0	0	0	24	1	0	1	4	0	0	1	17	4
	1730	,,	1013 5	984 5		19 6	13 7	7 6	10 4	48		2 4		9 4	0	0	21	2	0	0	4	0	0	0	15	7
Bhatinda . .	0830	211	1017 6	990 1		13 4	11 3	9 2	11 6	72		1 5		1 7	0	0	16	0	1	0	3	0	0	0	12	12
	1730	,,	1012 4	988 0	..	20 8	15 5	10 8	12 9	54		1 3		4 0	0	0	19	2	3	0	4	0	0	0	10	9
Karnal . . .	0830	249	1014 4	985 0	.	13 4	11 1	8 6	11 1	73		0														
	1730	,	1011 4	983 0		21 9	15 6	9 9	12 2	50		0														
Hissar . . .	0530	221	1013 2	987 5		10 3	9 0	7 8	10 6	85		1 5		2 0	0	0	14	0	4	3	1	0	0	2	4	14
	0830	,	1015 2	988 8	−0 7	10 8	9 3	7 5	10 3	81	+16	2 8	+0 6	3 9	0	0	25	1	0	3	5	4	5	6	1	3
	1130	,,	1015 1	989 5		19.3	14 4	10 1	12 3	59		2 0		5 9	0	0	26	2	0	3	5	2	3	2	9	2
	1730	,	1011 4	985 9	..	23 1	17 2	12 6	14 6	53		1 9		6 0	0	0	25	4	3	1	4	1	3	1	8	3
	2330	,,	1014 4	988 2	.	13 7	11 5	9 4	11 8	75		1 5		3 0	0	0	21	2	2	3	5	0	1	1	7	7
New Delhi (Safdarjung)	0230	216	1013 2	987 6		13 2	10 5	7 5	10 5	70		1 7		7 5	0	0	22	1	2	3	0	0	0	6	10	6
	0530	,,	1012 9	987 2	.	11 7	9 6	7 2	10 3	75	.	1 6		8 1	0	1	25	1	2	2	1	2	1	10	7	2
	0830	,,	1014 8	989 1	−0 9	12 7	10 1	7 1	10 3	70	+7	1 8	- 0 6	9 6	0	3	25	1	1	2	3	1	4	12	4	0
	1130	,,	1014 8	989 8	..	20 3	14 0	7 9	10 7	47		2 4		15 0	0	10	18	1	1	2	2	1	4	8	9	0
	1430	,,	1012 0	987 2	..	23 0	14 6	6 1	9 4	36		2 1	..	18 2	0	13	15	1	1	3	3	0	1	7	12	0
	1730	,,	1011 4	986 6	.	22 3	14 5	6.6	10 2	38	..	1 9	.	13 8	0	9	19	0	2	3	4	0	0	5	14	0
	2030	,,	1013 1	987 9	.	17 3	12 9	8 5	11 1	57	.	1 6	.	7.4	0	1	24	2	1	4	1	0	0	6	11	3
	2330	,,	1013 8	988 3	..	14 9	11 5	7 9	10 7	65	..	1 5		7 5	0	0	24	1	1	5	0	1	0	5	11	4
Palam (Aerodrom.) .	0230	233	1013 3	985 5		12 6	10 4	8 1	10 8	73	.	1.1		6 2	0	0	21	4	3	2	5	1	1	0	5	7
	0530	,	1012 7	985 7	..	10 4	8 9	7 2	10 2	80	..	1 1	..	7 4	0	0	23	1	4	1	4	1	4	5	3	5
	0830	,,	1017 3	986 6	..	11 6	10 1	7 5	10 4	79	..	2 1	.	7 0	0	0	24	0	3	1	2	1	8	6	3	4
	1130	,,	1015 0	988 1	..	19 4	14 0	8 9	11 4	52		2 4	..	13 3	0	2	26	2	2	1	3	3	2	3	12	0
	1430	,,		.			.			.	.											.				..
	1730	,,	1012 6	984.4	.	22 9	14 4	9 2	11 6	45	.	2 1	..	12 0	0	1	27	7	0	0	4	3	0	1	13	0
	2030	,,		.			.			.	.	.	.					.							.	..
	2330	,,	1013 8	986 4		14 4	11 3	8 0	10 7	67		1 3	..	6 7	0	0	23	5	3	0	7	1	0	1	6	5
Himachal Pradesh																										
Mandi . . .	0830	761	1018 5	929.1	+0 4	7 5	6.5	5 9	9 2	87	−2	3 9	+0 7	0 2	0	0	1	0	0	0	0	0	0	0	1	27
	1730	,,	1012 7	927 1	..	16 7	10 6	5 0	8 7	47	..	5 0	.	1 5	0	0	9	1	0	0	0	0	4	0	4	19
Bilaspur .	0830	587	1017.2	948 5	..	9 9	8 5	7.2	10 2	83	.	0	.	0 7	0	0	6	0	2	0	2	0	2	0	0	22
	1730	,,	1011 9	945 7	..	19 4	13 1	7.8	10.6	50	.	0	..	2 6	0	0	0	0	0	0	0	0	0	0	0	28
Jammu and Kashmir																										
Misgar (R)	0830																									
(R)	1730																									
Gilgit (R)	0830																									
(R)	1730																									
Sakardu (R)	0830																									
(R)	1730	..																								

(R) Register not received

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—FEBRUARY, 1965 (MAGHA 12—PHALGUNA 9, 1886 SAKA)

Sub-Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g p m of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km per hour	Wind speed (Km p h): 62 or more	Wind speed (Km p h): 20 to 61	Wind speed (Km p h): 1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Jammu and Kashmir —(Contd)																											
Leh	0530	3514				—10 5	—12 3	—19 4	1 1	47		3 6		5 2	0	0	23	5	13	0	0	3	2	0	0	5	0
	0830	,,				—6 7	—8 3	—13 9	1 8	57	+2	4 4	—0 9	4 2	0	0	21	2	0	0	0	15	4	0	0	7	0
	1730	,,				—2 0	—3 6	—8 2	3 0	55		4 5		3 9 (d)	0	0	27	0	0	0	4	11	5	4	3	0	0
Sr nagar	0830	1587	1511 9	842 3	—1 5	0 8	0 3	—0 6	5 9	96	+8	6 9	+0 7	2 5	0	0	20	1	1	3	3	1	0	2	9	8	0
	1130	,,	1518 8	843 0	.	3 5	2 1	—0 2	5 9	80		6 4		3 3	0	0	26	7	1	4	3	3	0	3	5	2	0
	1430	,,	1500 6	841 2		5 2	3 2	0 6	6 4	74		6 9		4 3	0	0	24	2	1	2	3	2	3	2	9	4	0
	1730	,,	1496 3	840 8		4 6	2 8	0 3	6 3	76		6 8		6 3	0	0	27	2	1	2	3	0	1	3	15	1	0
	2030	,,	1503 1	840 0	.	3 3	2 2	0 7	6 4	84		5 9		3 6	0	0	20	6	0	1	2	1	0	0	10	8	0
Srinagar (Aerod ome)	0530	1666	1499 2	833 0		0	—0 6	—1 3	5 4	90		5 7		0 6	0	0	2	0	0	1	0	0	0	0	1	26	0
	0830	,,	1510 7	833 8		0 3	—0 4	—1 7	5 3	87		6 5		3 4	0	0	15	0	1	0	2	2	2	2	6	13	0
	1130	,,	1514 2	834 7		3 5	2 4	0 9	6 5	84		5 7 (e)		3 5	0	0	15	1	3	2	2	0	2	1	4	13	0
	1730	,,	1499 0	832 9		4 1	2 7	0 9	6 5	79		6 4		5 1	0	0	14	1	2	0	0	0	0	2	9	14	0
	2330	,,	1504 6	833·6		1 5	0 8	—0 3	5 9	88		5 8		1 1	0	0	5	0	0	0	0	0	1	1	3	23	0
Gulmerg	0830	2655	Closed during winter months																								
	1730	,,																									
Qazigund	0830	1690		.		0 2	0 3	—0 6	5 5	91		6 5		1 7	0	0	13	0	0	0	8	3	2	2	1	15	0
	1730	,,	.			4 5	2 4	—0 4	5 9	73		6 6		2 9	0	0	19	1	0	1	5	1	9	0	2	9	0
Banihal	0830	,,	.	.		1 8	0 5	1 8	6 9	78		4 7		3 3	0	1	7	1	0	0	1	0	0	0	6	20	0
	1730	.	.			6 7	3 3	1 3	6 7	61		5 9		2 8	0	0	11	0	0	0	1	2	0	0	8	17	0
Jammu	0830	366	.			11 5	9 0	5 9	9 2	70	+4	3 7	+0 6	7 3	0	0	25	4	8	0	1	0	0	0	1	3	11
	1730	,,				17 3	12 9	8 9	11 4	59		2 8		2 6	0	0	13	0	0	0	0	0	0	0	15	13	
Jammu (Aerodrome)	0530	292	1013 6	978 8		10 5	8 6	6 4	9 6	75		3 4		4 8	0	0	18	2	14	1	1	0	0	0	0	10	0
	0830	,,	1014 7	979 8		11 2	9 3	7 1	10 0	76		4 1		4 7	0	0	16	2	11	0	1	0	0	1	1	12	0
	1130	,,	1015 3	982 5		16 7	12 6	8 1	10 7	59		4 3		6 6	0	1	19	2	3	3	2	3	2	5	0	8	0
	1730	,,	1012 7	978 8		17 9	13 2	9 3	11 7	57		4 7		7 1	0	0	22	1	5	1	0	1	2	8	4	6	0
	2330	,,	1014 5	979 9		12 7	10 1	8 0	10 7	73		3 3		7 8	0	3	14	1	11	3	2	0	0	0	0	11	0
Rajasthan (West)																											
Ganganagar	0530	177	1013 2	992 0		10 1	7 9	5 4	9 0	70		1 2		1 9	0	0	9	0	7	1	1	0	0	0	0	19	0
	0830	,,	1014 7	993 5	—1 1	10 4	8 2	5 6	9 1	73	+3	1 3	—0 6	2 0	0	0	12	0	2	7	2	0	0	1	0	16	0
	1130	,,	1015 2	994 7		20 0	12 9	5 8	9 2	39	..	2 1		7 4	0	1	27	4	4	3	5	2	4	2	4	0	0
	1730	,,	1011 6	991 4		22 7	13 3	2 9	7 5	29	.	1 9		4 6	0	0	27	8	5	2	2	0	1	2	7	1	0
	2330	,,	1014 0	992 9		13 6	10 0	5 8	9 2	60	.	1 7	.	4 1	0	0	17	2	6	7	1	0	0	0	1	11	0
Anupgarh (R)	0830	154																									
(R)	1730	,,																									
Mahajan	0830	187	1013 4	991 2		12 7	9 4	5 5	9 0	63		0	.	4 0	0	0	27	3	3	9	2	4	5	1	0	1	0
	1730	,,	1009 5	988 0		23 7	16 5	9 7	13 0	45		0		4 2	0	0	28	6	2	8	1	0	3	1	7	0	0
Churu	0830	291	1015 4	980 8		11 2	6 8	0 6	6 3	51		1 5		3 7	0	0	23	0	0	10	3	5	3	2	0	5	0
	1730	,,	1011 0	978 1		24 1	12 2	—5·3	4·5	17		1 5	.	9 7	0	3	24	16	1	1	0	2	0	2	5	1	0
Bikaner	0830	224	1014 7	987 7	—1 4	11 8	6 7	—0 6	5·8	45	—14	0 4	—1 8	2 1	0	0	22	1	2	8	5	1	3	2	0	6	0
	1730	,,	1011 4	985 3	.	25 5	13 4	—1 6	6 9	19	.	0 4	..	5 6	0	1	26	8	4	1	2	0	3	4	5	1	0
Bikaner PBO	0530	224	1013 1	986 3	.	10 1	6 4	1 2	6 7	55		1 5		1 4	0	0	4	1	0	0	1	1	1	0	0	24	0
	1130	,,	1014 7	989 0	.	22 6	12 9	1 8	6 9	27	.	1 0	.	5 4	0	0	24	1	6	1	7	4	4	1	0	4	0
	2330	,,	1013 3	987 0		15 6	9·8	1 9	7 3	42		1 1	.	3 5	0	1	10	6	3	0	0	1	1	0	0	17	0
Nagaur	0830	298	1014 8	980 2	.	18 6	12 4	5 9	9 3	45		1 0	.	7 6	0	1	26	4	5	7	7	2	2	0	0	1	0
..	1730	,,	1010·5	976 6	.	25 0	16 7	9 7	12 0	40		1 0	..	6 2	0	0	28	8	3	1	1	2	4	1	8	0	0
Phalodi	0830	234	1014 3	986 6	.	13 0	8 4	2 3	7 2	50		1 9	.	8 0	0	1	24	2	0	5	7	7	4	0	0	3	0
	1730	,,	1011·4	985 0	.	26 5	15 1	3 3	7 7	24	.	0 8		11 4	0	5	23	4	3	1	0	0	6	7	7	0	0
Jaisalmer	0830	242	1013 6	985 3	.	14·0	9 0	3 1	7 6	47	.	0 8	.	8 7	0	1	23	7	4	1	1	6	3	2	0	4	0
	1730	,,	1009 8	982 7	.	26 7	19 6	14 6	16 6	49		1 3	.	13 4	0	3	23	7	4	0	1	6	4	2	2	2	0
Jodhpur	0230	224	1012 6	986 3	.	15 7	9 7	1 1	6 6	39		0 7		7 6	0	0	24	6	11	0	0	1	1	5	0	4	0
	0530	,,	1012 5	986 1		14 0	8 5	0 8	6 5	43	.	0 5	.	6 9	0	0	23	6	14	0	0	0	1	2	0	5	0
	0830	,,	1014 4	987 9	0	14 8	8 9	0 4	6·3	40	—7	0 8	—1 4	7 6	0	0	24	3	15	1	0	1	2	2	0	4	0
	1130	,,	1014 5	988 8		23 3	13 2	0 6	6.4	26	..	0 6		9 4	0	2	25	0	5	9	3	2	7	1	0	1	0
	1430	,,	1011 2	985 9		27 5	14,5	—1 1	5 6	17		1 0	.	11 3	0	2	25	1	6	3	2	1	5	5	4	1	0
	1730	,,	1010 3	985 1		27 0	14 4	—0.6	5 8	19	..	1 0	.	9 3	0	1	24	3	4	4	0	0	4	6	4	3	0
	2030	,,	1012 0	986 3		21 2	12,6	2 5	7 3	31	..	0 9	..	5 3	0	0	20	5	5	1	0	1	3	4	1	8	0
	2330	,,	1012 9	986 8	.	18 6	11 1	1 6	6 9	31	.	0 8	..	7·0	0	0	26	7	9	1	0	1	2	5	1	2	0

(R) Register not received.

(e) Mean of 26 days.

(d) Mean of 27 days.

Sub-Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g p m of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km per hour	Wind speed (Km p h): 62 or more	Wind speed (Km p h): 20 to 61	Wind speed (Km p h): 1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (West) *Contd*																											
Barmer	0530	194	1011 6	988 8		15 7	10 4	3 7	8 4	47		0		5 4	0	0	23	4	1	0	1	1	3	3	10	5	0
	0830	,,	1013 3	990 5	−1 2	15 7	10 5	4 0	8 6	48	−10	0 5	−1 6	5 3	0	0	17	3	0	0	0	0	2	1	11	11	0
	1130	,,	1013 7	991 5		24 6	15 6	7 1	10 4	34		0 5		4 7	0	0	23	2	5	2	5	2	1	2	4	5	0
	1730	,,	1009 8	987 9		27 8	16 8	6 7	10 2	27		0 3		4 9	0	0	25	2	3	1	2	0	3	4	10	3	0
	2330	,,	1012 0	989 6		20 5	12 6	3 6	8 3	34		0 2		5 4	0	0	25	1	1	1	2	0	2	5	13	3	0
Munabao	0830	80	1015 2	1006 0		12 5	10 0	6 8	10 3	71		0		3 2 (g)	0	0	19	1	12	0	0	2	3	1	0	5	0
	1730	,,	1011 9	1002 8		28 9	20 5	13 9	17 3	44		0		8 1 (f)	0	2	23	4	9	0	0	2	7	1	2	0	0
Rajasthan (East)																											
Pilani	0830	301	1015 6	979 9		11 6	8 2	3 9	8 1	61		1 8		6 5	0	1	23	0	0	2	6	5	7	4	0	4	0
	1730	,,	1011 5	977 3		23 3	12 9	0 7	6 4	24		1 6		11 0	0	3	25	9	3	1	2	0	2	3	8	0	0
Sikar	0830	433	1014 7	964 4		14 5	10 5	6 1	9 4	58		0 9		0 7	0	0	10	0	1	1	6	0	0	0	2	18	0
	1730	,,	1010 7	962 2		23 9	17 5	12 7	14 7	50		1 0		1 0	0	0	14	0	3	0	0	0	0	2	9	14	0
Alwar	0830	271	1013 7	982 0		13 6	11 1	8 4	11 0	72		2 4		1 4	0	0	12	1	2	1	0	2	3	1	1	16	1
	1730	,,	1010 8	979 9		23 5	15 5	8 5	10 9	37		2 0		1 7	0	0	19	4	5	1	2	0	1	0	6	9	0
Jaipur (Sanganer)	0230	390	1012 7	967 2		13 8	9 3	2 6	7 4	52		0 1		5 5	0	1	16	2	6	6	0	0	0	1	2	11	0
	0530	,,	1012 7	967 0		12 6	8 6	3 5	7 9	57		0 4		4 4	0	0	18	3	5	7	0	0	0	1	2	10	0
	0830	,,	1014 3	968 9	+1 6	14 6	9 9	4 0	8 1	51	+3	1 2	−0 9	3 6	0	0	14	0	4	6	1	1	0	0	2	14	0
	1130	,,	1014 1	969 8		22 5	13 1	2 7	7 4	30		0 9		7 6	0	1	23	2	2	6	6	2	1	3	2	4	0
	1430	,,	1010 7	967 0	.	25 2	14 2	1 9	7 0	23		1 1		9 6	0	1	26	3	2	2	4	1	3	6	6	1	0
	1730	,,	1010 1	966 2	.	24 1	13 6	1 4	6 8	25		0 9		5 7	0	1	20	2	1	1	2	1	0	3	11	7	0
	2030	,,	1012 3	967 4		18 0	11 6	4 1	8 2	42		0 8		6 3	0	2	18	7	6	3	0	0	1	1	2	8	0
	2330	,,	1013 1	967 9	.	15 7	10 3	3 6	7 9	46		0 5		5 5	0	1	22	5	9	5	0	0	1	1	2	5	0
Dholpur	0830	176	1014 4	993 6		14 3	10 7	6 6	9 7	61		1 2		1 8	0	0	16	1	1	0	4	2	0	4	4	12	0
	1730	,,	1010 3	990 3	.	24 4	14 9	5 7	9 2	30		0 4		2 0	0	0	13	5	2	0	0	0	0	0	6	15	0
Ajmer	0830	486	1015 3	958 8	−1 2	19 2	8 5	3 2	7 7	52	0	1 4	−0 3	2 9	0	1	15	3	6	1	1	1	1	2	1	12	0
	1730	,,	1009 8	955 7		24 8	12 8	−0 2	6 0	20		0 7		7 1	0	2	26	4	4	0	2	1	4	8	5	0	0
Tonk	0830	272	1014 0	982 1		13 1	9 8	6 1	9 4	63		1 1		6 0	0	0	27	5	2	1	2	2	0	4	11	1	0
	1730	,,	1009 4	978 8		25 1	15 9	7 7	10 5	32		1 0		5 7	0	0	28	3	1	1	0	0	3	6	14	0	0
Bhilwara	0830	425	1015 1	965 8		15 3	9 4	1 9	7 0	41		1 6		4 1	0	0	21	4	4	2	1	3	6	1	0	7	0
	1730	,,	1009 8	962 6	.	25 5	13 4	−1 7	5 3	17		1 2		6 0	0	0	24	5	3	2	1	0	4	3	6	4	0
Kota	0830	257	1014 8	984 8	−1 2	16 5	11 6	6 4	9 7	52	+4	0 9	−0 9	2 0	0	0	13	2	2	2	1	0	1	3	2	15	0
	1730	,,	1010 1	981 1	..	25 8	15 5	5 9	9 3	28		0 8		5 8	0	2	16	4	3	0	1	0	1	2	7	10	0
Kota (Aerodrome)	0530	274	1012 7	780 5	.	14 4	8 9	1 5	7 0	43		0 4		8 6	0	0	28	0	4	5	1	0	7	11	0	0	0
	0830	,,	1014 7	982 8		16 8	10 5	2 8	7 5	41		0 6		6 0	0	0	26	0	2	7	1	0	2	10	4	2	0
	1130	,,	1014 6	983 5		23 1	14 0	3 6	8 5	30		0 7		8 6	0	1	26	1	3	16	1	0	2	4	0	1	0
	1730	,,	1010 0	979 3		27 0	14 7	1 2	6 6	19	.	1,2	.	13 4	0	4	24	9	9	2	0	0	3	3	2	0	0
	2330	,,	1013 0	981 3		18 4	10 7	0 8	6 7	33		1 0		9 4	0	0	28	1	3	2	1	3	12	4	2	0	0
Ernpura (Jawai Dam)	0830	295	1014 4	980 0		15 2	11 8	8 4	11 0	65	.	0 8	..	3 0	0	0	12	0	0	0	0	11	0	1	0	16	0
	1730	,,	1010 3	977 1		25 8	18 5	13 2	13 1	48		0 9		3 0	0	0	14	0	2	0	2	1	3	4	1	14	1
Chambal (Rawat Bhatta Dam)	0830	351	1015 1	974 5		15 1	10 2	4 6	8 5	52		0 5	.	2 3	0	0	11	2	3	1	0	2	0	2	1	17	0
	1730	,,	1009 3	970 6	.	26 6	15 1	3 4	7 8	23		0 6		8 2	0	3	25	4	8	1	1	0	2	3	9	0	0
Udaipur	0230	582	1013 9	946 7	..	12 8	9 5	6 1	9 4	65		0 1		0 1	0	0	1	0	0	0	0	0	1	0	0	27	0
	0530	,,	1014 0	946 4	..	11 4	8 7	5 7	9 1	69		0 2	.	0	0	0	0	0	0	0	0	0	0	0	0	28	0
	0830	,,	1015 3	948 2	−1 4	13 9	10 0	5 9	9 3	59	+9	0 4	−1 0	0 2	0	0	1	0	0	0	0	0	0	1	27	0
	1130	,,	1013 9	949 0		23 6	14 6	6 9	9 9	35		0 4		4 4	0	0	19	0	2	11	0	1	3	2	0	9	0
	1730	,,	1009 6	945 4	.	25 3	15 1	6 6	9 7	31		0 6		4 6	0	0	14	0	2	1	0	2	6	3	0	14	0
	2330	,,	1014 1	947 3		14,7	10 7	6 8	9 9	60	.	1 0		1 0	0	0	4	0	0	1	0	0	1	1	1	24	0
Jhalawar	0830	321	1014 5	977 1	−0 8	15 3	10 1	4 4	8 4	48	−4	0 6	−0 9	2,6	0	0	14	3	2	1	2	1	2	1	2	14	0
	1730	,,	1009 2	973 8		27 4	15 1	2 0	7 1	20		0 6		7 7	0	0	27	5	6	2	0	0	5	5	4	1	0
Banaswara	0830	220	1014 1	988 6		18 2	11 7	4,1	8 2	42		0		6 0	0	0	25	0	2	9	9	1	3	1	0	3	0
	1730	,,	1009 5	984 7		29 5	15 8	1 4	6 8	17		0		5 4	0	0	26	2	2	1	1	1	3	7	9	2	0
Madhya Pradesh																											
(West) Gwalior	0230	207	1013 1	988 5	.	11 4	8 1	4 6	8 2	63		1 4		1 0	0	0	8	3	0	0	0	3	1	1	0	20	0
	0530	,,	1013 1	988 3		10 3	7 7	4 6	8 4	69	.	1 1	.	1 6	0	0	14	2	0	1	4	3	3	0	1	14	0
	0830	,,	1014 6	990 3	−1 3	15 5	10 7	5 1	9 0	51	−5	1 0	−0 7	3 3	0	0	17	3	1	0	4	1	1	2	5	11	0
	1130	,,	1014 4	990 8	.	23 5	13 7	9 1	7 8	28	.	1 5		8 3	0	0	28	5	6	0	3	6	0	1	7	0	0
	1430	,,	1011 3	987 9	.	26 4	14 4	1 1	6 7	20	..	1 6	.	9 1	0	1	26	7	3	1	2	0	0	1	13	1	0
	1730	,,	1010 7	987 3	.	25 0	14 3	2 6	7 6	24	.	1,9	.	7 2	0	0	27	10	3	1	0	2	1	0	10	1	0

(f) Mean of 25 days

(g) Mean of 24 days

Sub-Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g p m of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km per hour	Wind speed (Km p h): 62 or more	Wind speed (Km p h): 20 to 61	Wind speed (Km p h): 1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—(*Contd*)																											
Gwalior	2030	207	1012 7	988 6		17 5	11 6	5 3	8 8	45		1 1		2 9	0	0	14	5	1	1	2	1	1	0	3	14	0
	2330	,,	1013 5	989 1		13 7	9 8	4 9	9 0	57		1 3		1 9	0	0	11	1	2	1	1	4	1	0	1	17	0
Sheopur	0830	235	1014 7	987 1	—0 6	14 0	9·3	3 6	7 9	49	—9	0 8	—1 2	4 4	0	0	23	3	5	2	5	5	1	1	1	5	0
	1730	,,	1010 2	983 6		26 7	14 7	1 2	7 0	20		1 2		9 7	0	2	26	13	0	0	0	1	4	6	4	0	0
Shivpuri	0830	464	1014 4	960 8		16 0	9 8	3 1	7 6	44		0 5		4 2	0	0	18	1	5	1	4	2	2	2	0	10	1
	1730	,,	1010 1	958 3	.	24 6	12 9	0 4	6 4	21		1 1		4 9	0	0	23	2	5	1	1	0	0	2	12	5	0
Nowgong	0830	229	1015 6	987 9	—1 0	13 7	10 1	5 9	9 5	61	—5	1 0	—1 1	1 4	0	0	10	0	2	1	0	2	4	1	0	18	0
	1730	,,	1010 5	984 8		26 6	14 9	2 5	7 5	23		1 0		2 8	0	0	25	3	0	0	0	0	3	3	16	3	0
Guna	0530	478	1013 7	957 7		11 1	8 7	5 5	9 5	69		0 5		4 7	0	1	22	1	4	2	11	3	0	1	1	5	0
	0830	,,	1015 0	959 8	—0 6	15 7	11 4	7 5	10 4	59	+2	0 7	—0 5	4 5	0	0	27	0	5	7	7	7	0	1	0	1	0
	1130	,,	1013 7	960 2	.	24 1	17 1	11 8	14 4	48		1 1		9 1	0	3	25	2	3	3	3	2	4	4	4	0	3
	1730	,,	1009 7	956 6	.	25 8	17 4	11 2	13 7	42		0 6		11 9	0	3	25	3	1	2	0	2	2	7	11	0	0
	2330	,,	1013 7	958 6		15 7	11 4	7 4	10 7	59		0 4		5 3	0	1	21	4	2	2	5	1	1	4	3	6	0
Nimach	0830	496	1015 4	958 2	—0 7	15 6	8 7	—0 1	6 3	36	—11	0 7	—0 7	4 1	0	0	23	1	12	3	3	1	1	2	0	5	0
	1730	,,	1010 8	955 6		26 4	12·9	—2 7	5 0	15		0 3		10 0	0	2	26	4	7	2	0	0	5	6	2	0	2
Rajgarh	0830	382	1015 5	9"0 9		13 9	8 8	2 2	7 2	45		0 5		3 5	0	0	22	4	3	3	6	5	0	1	0	6	0
	*1730	,,																								.	
Sagar	0830	551	1014 3	951 5	—0 8	17 9	11 0	3 7	8 1	41	—5	0·4	—1 2	4 5	0	0	23	0	0	1	1	0	2	10	9	5	0
	1730	,,	1009 5	948 6	.	25 3	13 5	1 3	6 9	22		1 0	.	2 9	0	0	26	1	6	2	0	0	3	4	10	2	0
Ratlam	0830	486	1014·6	958 8	—0 4	16 7	11 2	5 7	9 3	49	—1	1 2	—0 3	9 1	0	3	23	2	10	8	0	2	3	1	0	2	0
	1730	,,	1009 2	955 6		27 5	16 5	8 0	10 7	29		0 5		11 1	0	1	27	2	8	1	1	0	7	7	2	0	0
Bhopal (Bairagarh)	0230	523	1012 2	952 3		16 1	9 7	2 4	7 3	41		0 3		7 9	0	0	26	6	10	1	3	1	1	3	1	2	0
	0530	,,	1012 9	952 4	.	14 0	8 8	2 5	7 6	47		0 8		5 4	0	0	23	5	9	1	1	1	3	3	0	5	0
	0830	,,	1014 5	954 8	—0 7	17 8	10 7	3 0	7 7	39	—9	0 9	—0 6	8 7	0	1	25	1	8	5	2	3	2	2	3	2	0
	1130	,,	1013 2	955 0	.	24 7	13 9	3 5	8 0	27		0 8		10 0	0	3	24	2	6	6	4	4	2	1	2	1	0
	1430	,,	1009 5	951 9		27 3	14 5	2 0	7 2	20		1 2		10 6	0	5	19	2	4	3	1	2	4	4	4	4	0
	1730	,,	1009 0	951 3		26 5	14 4	2 1	7 6	23		1 1		11 4	0	5	22	6	5	2	0	0	1	7	6	1	0
	2030	.	1012 3	953 0		20 6	12 2	3 4	8 0	34		0 7		5 1	0	0	22	5	6	2	3	1	1	2	2	6	0
	2330	,,	1012 9	953 2		17 9	10 7	2 7	7 6	37		0 5		6 4	0	0	25	7	5	2	3	2	2	2	2	3	0
Ujjain	0830	489	1014 8	958 4		15 5	10 3	4 8	8 8	51		0 9		5 8	0	1	21	1	3	6	6	2	1	1	1	6	1
	1730	,,	1009 2	955 3		27 6	15 4	4 6	8 6	23		0 6		13 6	0	9	18	3	6	0	0	0	1	9	6	1	2
Narsinghpur	0830	356	1014 9	973 5		16 1	11 0	5 4	9 0	51		0 3	.	1 9	0	0	25	0	15	0	5	0	0	0	5	3	0
	1730	,,	1009 2	969 7		27 4	16 0	5 1	9 0	25		1 1		2 1	0	0	23	1	9	0	1	0	5	0	7	5	0
Hoshangabad	0830	302	1014 5	979 3	—1 2	16 6	13 1	9 2	12 3	65	+14	0 5	—0 9	3 9	0	0	28	1	6	0	11	10	0	0	0	0	0
	1730	,,	1009 5	975 8		27 8	19 8	13 9	16 6	45		0 7		3 6	0	0	28	1	9	0	10	1	4	3	0	0	0
Indore	0530	567	1012 8	947 3		12 9	8 2	2 8	7 5	51		0 3		7 0	0	1	22	0	7	5	0	1	9	1	0	5	0
	0830	,,	1014 5	949 6	—1 1	16 3	10 4	4 0	8 4	45	—1	0 3	—1 0	7 1	0	1	20	0	7	4	0	0	7	3	0	7	0
	1130	,,	1012 8	949 9		25 2	14 4	4 3	8 5	28		0 3		14 7	0	9	19	1	2	9	2	2	5	3	0	0	4
	1730	,,	1008 4	946 3		27 3	14 8	2 6	7 7	21	.	0 3		15 1	0	8	19	4	8	1	0	0	9	4	1	1	0
	2330	,,	1013 1	948 4		16 1	9 6	2 3	7 3	41		0		8 4	0	0	26	4	10	0	0	2	7	3	0	2	0
Rajpur (Jhabua)	0830	293	1014 5	980 5		16 8	11 6	5 1	9 5	50		0 6		1 9	0	0	7	0	1	1	0	0	0	5	0	21	0
	1730	,,	1009 0	976 5		29 6	16 1	2 2	7 4	18		0 1		3 5	0	0	19	0	1	3	0	0	1	12	2	9	0
Chhindwara	0830	685	1014 7	937 0	—0 3	16 5	11 2	5 8	9 5	51	—2	0 3	—1 0	3 4	0	0	18	3	3	2	0	2	0	2	1	15	0
	1730	,,	1008·2	933 4		26 2	15 4	6 0	9 6	29		0 8		8 5	0	0	27	5	0	4	1	3	0	9	5	1	0
Seoni	0830	619	1015 0	944 9	—0 5	18 0	12 3	7 1	10 1	51	—2	0 9	—0 7	4 6	0	0	23	4	5	2	4	1	5	2	0	5	0
	1730	,,	1009 3	941 5		26 9	16 3	7 9	10 8	31		1 1	.	8 4	0	1	27	3	3	4	4	5	3	4	2	0	0
Betul	0830	653	1014 1	940 3	—0 2	18 0	11 0	3 3	8 1	40	—8	0 4	—0 9	3 5	0	0	20	0	5	6	6	0	0	2	1	8	0
	1730	,,	1008·1	936 9	..	27 3	14 6	2 2	7 5	20		0 9	.	6 7	0	0	28	8	4	1	4	0	1	4	6	0	0
Khandwa	0830	318	1014 2	977 5	—0 8	18 1	11 6	3 8	8 4	41	—4	0 3	—0 8	2 8	0	0	21	0	10	2	0	2	1	4	2	7	0
	1730	,,	1008 6	973 4		30 2	17 1	4 8	8 8	21		0 5	.	4 4	0	0	28	1	9	0	1	2	4	3	8	0	0
Madhya Pradesh (East)																											
Satna	0530	317	1013 1	975 8		12 3	9 2	5 7	9 1	64		1 1	.	1 3	0	0	16	2	3	3	4	3	0	1	0	12	0
	0830	,,	1014 7	977 9	—0 7	16 6	11 7	6 4	8 8	52	—7	1 0	—0 9	1 0	0	0	14	0	2	3	1	3	0	3	2	14	0
	1130	,,	1013 9	978 0		24 6	15 2	6 8	9 7	33		0 7	.	2 8	0	0	20	1	3	5	4	2	1	3	1	8	0
	1730	,,	1010 1	974 5		25 2	15 8	7 2	10 2	32		1 1		1 6	0	0	21	6	0	9	0	0	0	5	1	7	0
	2330	,,	1013 5	976 6		16 0	11 2	5 9	9 5	52	.	1 1		1 1	0	0	12	2	2	3	3	1	0	1	0	16	0
Rewa	0830	299	1014 5	979 7		15 8	12 1	8 4	11 0	62	..	0 9		3 0	0	0	19	0	2	1	1	1	5	8	1	9	0
	1730	,,	1010 2	976 6		25 8	16 8	9 0	11 9	36		1 2		4 5	0	0	25	7	1	0	1	0	0	6	10	3	0

*Data not available.

Sub-Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g p m of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km per hour	Wind speed (Km p h): 62 or more	Wind speed (Km p h): 20 to 61	Wind speed (Km p h): 1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (East)—(Contd)																											
Sidhi	0830	272	1014 1	982 3		14 6	11 3	7 4	10 7	64		0 8															
	1730	,,	1009 1	978 5		25 4	16 1	7 3	10 7	33		1 7															
Umaria	0830	459	1015 0	962 0		15 6	12 1	9 1	11 5	66	+4	0 6	—1 5	2 3	0	0	15	0	1	3	2	2	5	0	0	13	2
	1730	,,	1009 6	958 7		26 0	18 5	13 8	15 9	47		1 1		3 0	0	0	27	5	1	0	0	2	1	1	9	1	8
Jabalpur	0530	393	1013 0	967 2		13 0	10 2	7 0	10 2	68		0 6		0 8	0	0	5	4	0	0	0	1	0	0	0	23	0
	0830	,,	1014 9	969 6	—0 2	17 4	12 1	6 6	9 8	50	+10	0 5	—1 1	2 8	0	0	20	1	3	0	5	7	1	2	1	8	0
	1130	,,	1013 5	969 5		25 4	15 4	6 5	9 4	31		0 7		5 1	0	0	25	2	5	1	5	5	1	2	4	3	0
	1430	,,	1009 9	966 5		28 3	16 3	4 8	8 8	23		1 2		6 2	0	0	26	6	5	0	2	1	2	5	5	2	0
	1730	,,	1009 4	965 8		27 1	16 0	5 7	9 1	26		1 4		4 1	0	0	24	7	5	0	1	0	2	5	4	4	0
	2330	,,	1013 1	967 9		17 4	12 4	7 2	10 4	53		0 6		3 3	0	0	18	1	7	1	3	5	1	0	0	10	0
Ambikapur	0830	611	1015 2	945 4	—0 4	15 7	11 8	8 4	11 0	63	—2	0 9	—0 2	3 6	0	0	15	4	4	0	0	2	5	0	0	13	0
	1730	,,	1009 2	941 8		25 1	14 4	5 4	8 7	31		0 8		5 5	0	0	28	11	3	1	1	0	4	4	4	0	0
Jashpur Nagar	0730	*779	1014 7	926 9		15 9	11 6	7 4	10 5	58		1 0		1 3	0	0	13	2	7	0	1	0	1	0	2	15	0
	1730	,,	1009 6	924 4		23 6	14 1	5 2	9 1	32		1 3		4 7	0	0	28	3	3	1	0	1	8	4	8	0	0
Pendra	0530	625	1013 2	941 7		14 3	9 9	5 3	8 9	56		0 4		4 1	0	0	19	8	1	0	0	3	1	2	4	9	0
	0830	,,	1014 7	914 0	—0 7	17 8	11 8	5 9	9 5	47	—12	0 9	—1 0	4 6	0		18	9	1	0	1	2	2	1	2	9	1
	1130	,,	1013 1	913 9		24 0	14 4	5 7	9 4	31		1 1		11 1	0	5	23	7	5	0	1	8	2	2	2	0	1
	1430	,,	1009 4	940 9		26 1	15 1	5 5	9 1	27		1 3		14 0	0	9	19	9	3	0	0	5	5	2	4	0	0
	1730	,,	1009 6	940 7		24 3	14 7	6 1	9 7	32		1 0		7 8	0	0	26	13	1	0	0	5	5	0	2	2	0
	2330	,,	1013 4	942 6		17 2	11 3	5 6	9 7	47		0 7		5 0	0	2	21	6	0	0	1	2	4	2	7	5	0
Mandla	0830	443	1015 1	964 0	—0 5	15 6	11 5	7 0	10 2	58	—16	0 7	—0 9	0 1	0	0	1	1	0	0	0	0	0	0	0	27	0
	1730	,,	1009 3	960 2		26 2	15 3	4 5	8 5	27		1 4		2 9	0	0	16	7	0	0	0	4	0	0	5	12	0
Champa	0830	245	1014 5	986 0	—0 3	18 7	13 5	8 6	11 2	53	—6	0 6	—0 9	3 9	0	0	22	14	3	2	0	0	0	0	3	6	0
	1730	,,	1009 7	982 3		27 9	16 7	6 7	9 9	26		1 2		4 6	0	0	25	10	0	0	0	2	2	7	4	3	0
Raigarh	0830	220	1014 5	989 1	0	20 8	14 5	8 6	11 4	47	—6	0 9	—0 4	3 8	0	0	28	0	25	1	1	1	0	0	0	0	0
	1730	,,	1009 5	984 8		28 1	17 2	7 6	10 8	29		0 9		2 6	0	0	23	2	15	0	2	0	1	1	1	5	1
Raipur	0530	298	1012 3	977 4	.	16 8	13 1	9 6	12 1	63	..	0 6		4 2	0	0	19	3	4	0	3	4	3	0	2	9	0
	0830	,,	1014 3	980 0	—0 6	20 3	14 6	9 4	12 0	51	—5	1 0	—0 6	5 9	0	0	24	5	8	1	0	2	3	1	4	4	0
	1130	,,	1013 3	979 8		27 0	17 1	8 6	11 5	33		0 7		8 7	0	0	27	2	7	3	5	0	4	4	2	1	0
	1430	,,	1009 7	976 6		29 7	18 0	8 2	11 2	27		1 1		8 9	0	1	26	5	5	1	5	0	3	5	3	1	0
	1730	,,	1009 4	976 5		28 4	17 4	8 2	10 9	29		1 0		6 3	0	0	24	7	5	2	1	1	4	2	2	4	0
	2330	,,	1012 0	978 0	.	21 5	15 2	9 6	12 2	48		0 9		6 2	0	0	27	4	5	3	5	5	3	2	0	1	0
Kanker	0530	402	1013 9	968 3	—0 4	21 0	16 8	13 6	15 7	63	—5	0 4	—1 4	0 6	0	0	3	0	0	0	0	0	3	0	0	25	0
	1730	,,	1008 8	964 5		28 3	20 6	15 5	17 9	47		0 5		1 8	0	0	12	0	0	0	0	0	5	0	7	16	0
Jagdalpur	0530	553	1011 7	948 9	..	16 0	13 5	11·5	13·6	75		0 5		0 6	0	0	3	0	0	0	1	2	0	0	0	25	0
	0830	,,	1013 4	951 2	—1 1	20 4	15 8	12 6	14 6	61	—10	1 1	—0 5	0 9	0	0	6	0	2	0	0	3	0	0	1	22	0
	1130	,,	1011 3	950 8	.	27 8	17 5	10 1	12 4	33		1 2		8 9	0	2	25	4	6	2	1	2	7	3	2	1	0
	1730	,,	1007 7	947 5		28 3	17 2	8 8	11 5	30		2 7		8 0	0	0	23	2	4	0	2	6	5	1	3	5	0
	2330	,,	1011 7	949 7		20 5	15 3	11 5	13 6	57		0 6		1 1	0	0	6	2	0	0	0	2	1	1	0	22	0
Gujarat Region (Including Daman, Dadra and Nagar Haveli)																											
Deesa	0830	136	1014 2	998 1	—1 0	14 9	10 0	3 8	8 3	49		0 5	.	4 4	0	0	26	0	19	0	6	0	1	0	0	2	0
	1730	,,	1010 6	995 2		28 8	15 3	—0 4	6 5	17		0 4		8 3	0	0	28	0	5	0	1	0	10	0	12	0	0
Radhanpur	0830	30	1014 0	1010 4		16 4	13 2	10 2	12 6	68		0		3 9	0	0	26	1	5	3	5	0	10	0	2	2	0
	1730	,,	1010 4	1007 0		29 3	20 7	14 9	17 4	43	.	0	.	5 6	0	0	27	2	6	0	2	1	7	3	6	1	0
Idar	0830	219	1013 7	988 3		18 9	11 7	2 0	8 0	39	.	0 5		3 0	0	0	14	0	6	6	1	0	0	1	0	14	0
	1730	,,	1009 7	985 2	.	28 5	15 6	1 4	7 3	19	.	0 1		4 1	0	0	25	2	0	1	0	0	0	20	2	3	0
Ahmedabad	0230	55	1011 7	1005 2		17 6	11 9	5 4	9 3	47		0		7 5	0	0	22	4	6	2	1	0	0	5	4	6	0
	0530	,,	1011 5	1005 0		15 7	11 2	5·7	9 7	54		0 3		6 4	0	0	19	2	7	4	0	0	0	4	2	9	0
	0830	,,	1013 7	1007 1	—1 5	17 5	11 9	5 1	9 4	49	—7	0 1	—1 1	7 8	0	1	17	0	3	7	0	1	0	5	2	10	0
	1130	,,	1014 3	1008 0		26 7	15 9	5 1	9 3	28	.	0 3	.	15 6	0	9	19	1	3	10	5	0	1	4	4	0	0
	1430	,,	1011 0	1004 8		30 5	16 8	3 3	8 1	19		0 5	.	13·1	0	6	20	2	2	5	3	3	3	4	4	2	0
	1730	,,	1010 0	1003 8		30 2	16 3	1 9	7 3	17	.	0 4		11 3	0	2	23	2	6	4	0	0	4	5	4	3	0
	2030	,,	1011 4	1005 1		23 1	14 4	5 7	9 4	33		0 2		6 1	0	2	16	5	4	3	0	1	2	0	3	10	0
	2330	,,	1012 1	1005 8		19 8	12 9	5 7	9 3	41	..	0		5 9	0	3	12	3	3	1	0	0	4	2	2	13	0
Dohad	0830	333	1014 3	975 9	—0 6	18 1	11 3	2 6	8 0	39	—10	0 8	—0 3	9 0	0	3	24	0	6	4	2	6	4	5	0	1	0
	1730	,,	1009 2	972 4	.	29 4	14 9	—2 7	5 1	14		0 1		8·9	0	3	24	2	4	2	2	0	11	4	2	1	0
Vallabh Vidyanagar	0830	44	1013 3	1008 2		14 7	11 0	6 1	9 9	60		0 1		14 6	0	0	23	5	9	2	4	1	2	0	0	5	0
	1730	,,	1009 6	1004 8		30 4	17 1	3 8	8 7	21		0 2		9 1	0	1	27	7	4	2	2	2	2	2	7	0	0

*Height Calculated provisionally

Sub-Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g p m of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Km. Mean wind speed, per hour	Wind speed (Km p h): 62 or more	Wind speed (Km p h): 20 to 61	Wind speed (Km p h): 1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Var-ti bl
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gujarat Region (Including Daman, Dadra and Nagar Haveli) (—Contd)																											
Baroda (Aerodrome)	0830	38	1013 6	1009 1	.	18 2	12 5	6 0	9 9	49		0 5		9 1	0	4	15	8	3	1	1	1	3	0	2	9	0
	1130	,,	1013 8	1009 5		28 2	16 3	4 3	8 9	25		0 3		13 9	0	6	19	2	5	6	3	0	4	3	2	3	0
	1730	,,	1009 5	1005 2		31 0	16 7	1 7	7 4	17		0 1		14 0	0	4	23	6	6	0	0	0	3	7	5	1	0
Baroda . . .	0530	34	1011 4	1007 3		16 3	12 4	8 0	11 2	60	.	0 7		0 6	0	0	5	0	3	0	0	0	1	1	0	23	0
	0830	,,	1013 7	1009 6	—0 5	16 7	12 5	7 7	11 1	59	—3	0 4	—0 5	0 7	0	0	6	0	4	0	0	0	1	1	0	22	0
	1130	,,	1014 0	1010 1		28 7	17 5	7 7	10 9	29		0 3		2 2	0	0	19	0	12	1	0	1	0	3	2	9	0
	1730	,,	1009 6	1005 7		31 8	18 4	6 9	10 3	23		0		2·5	0	0	21	0	4	1	1	0	4	8	3	7	0
	2330	,,	1012 0	1008 0		21 2	14 7	8 5	11 5	47		0		1 2	0	0	13	0	4	0	0	0	4	5	0	15	0
Broach . . .	0830	17	1012 6	1010 6	—1 0	16 9	13 1	9 1	12 0	62	+6	0 9	0	4 6	0	0	28	3	10	2	0	0	10	1	2	0	0
	1730	,,	1009 0	1005 1		32 3	20 0	10 8	13 6	28	..	0		6 1	0	0	28	0	13	1	0	0	10	0	4	0	0
Surat . . .	0530	12	1011 1	1009 7	.	17 8	14 4	10 2	13 3	63	.	0		7 1	0	1	23	0	20	0	2	0	2	0	0	4	0
	0830	,,	1013 3	1011 9	—1 1	19 2	14 2	9 6	12 2	56	—4	0 2	—0 8	7 2	0	0	27	0	17	1	5	0	2	0	2	1	0
	1130	,,	1014 1	1012 7	.	27 7	17 6	8 9	11 9	33		0·4	.	9 8	0	1	27	0	15	1	3	0	1	0	8	0	0
	1730	,,	1009 8	1008 5		30 4	18 2	8 0	11 0	27		0		9 1	0	0	28	0	4	0	2	0	11	0	11	0	0
Saurashtra and Kutch (Including Diu)																											
Naliya . . .	0830	21	1013 8	1011 2		14 9	12 5	9 2	12 5	73		0 8		2 9	0	1	8	1	6	0	0	0	0	1	1	19	0
	1730	,,	1010 7	1008 3		27 4	18 4	10 5	13 8	40		0 6		8 4	0	0	28	2	3	0	0	0	16	7	0	0	0
Bhuj (Rudramata) .	0230	80	1012 3	1002 8		17 0	13 1	8 3	11 9	61		0,1	.	2 9	0	0	8	0	1	0	0	0	3	3	1	20	0
	0530	,,	1012 1	1002 6		15 7	12 6	8 7	12 1	67		0 1		3 8	0	0	12	1	1	0	1	0	3	5	1	16	0
	0830	,,	1014 0	1004 5	—1 0	16 4	13 1	9 1	12 4	66	+18	0 4	—0 8	2·8	0	0	8	0	0	1	0	0	1	5	1	20	0
	1130	,,	1014 5	1005 3		25 8	16 3	7 1	10 8	34		0 3		11 8	0	1	25	7	4	5	2	0	2	1	5	2	0
	1430	,,	1011 3	1002 3	.	29 6	16 5	3 1	8 1	20		0 5		14 0	0	3	23	4	6	2	0	2	2	4	6	2	0
	1730	,,	1010 3	1001 3	..	29 5	16 5	3 1	8 2	20		0 3	..	14·9	0	7	20	5	7	4	0	0	3	6	2	1	0
	2030	,,	1012 0	1002 8		23 7	14 8	5 7	9 7	34	.	0 4		10 6	0	1	26	1	5	4	0	0	4	11	2	1	0
	2330	,,	1012 9	1003 5		19 3	14 0	8 3	11 7	53		0 1		5 4	0	0	15	2	1	0	0	0	4	7	1	13	0
Kandla (Aerodrome)	0830	35	1014 1	1010 0		18 7	13 5	6 7	11 2	53		0 2		12 9	0	3	22	4	2	0	0	1	5	3	10	3	0
	1130	,,	1014 8	1010 8	..	27 3	15 8	3 3	8 7	25		0 3		17 3	0	10	17	3	7	4	0	0	3	4	6	1	0
	1730	,,	1010 6	1006 7	.	29 7	16 1	0 2	7 3	18	..	0 3	.	20 0	0	13	14	5	5	1	1	8	5	0	2	1	0
New Kandla . .	0830	14	1014 2	1012 5		18 7	14 8	11 0	13 7	64		0 5		10 0	0	1	26	6	5	2	0	1	4	5	4	1	0
	1730	,,	1011 0	1009 4	.	27 1	18 1	10 6	13 4	39		0 4		18 9	0	12	16	5	5	1	1	1	10	5	0	0	0
Mandvi . . .	0830	9	1013 9	1012 8	—1 1	17 8	14 7	11·2	14 2	70	+1	0 5	—0 5	12 5	0	3	25	7	10	0	0	0	0	7	4	0	0
	1730	,,	1011 2	1010 1		25 4	20 5	17·1	20 1	64		0 9		23·9	0	19	8	0	3	0	4	1	4	13	0	1	2
Surendranagar	0830	74	1013 8	1005 1	—0 6	18 4	14 3	10 1	13 0	62	+8	0 2	—1 0	5 6	0	0	22	5	3	0	0	0	2	5	7	6	0
	1730	,,	1009 7	100' 4		30 6	19 2	10 6	12 9	30		0 3		6 3	0	0	26	8	3	1	1	0	0	9	4	2	0
Okha . . .	0530	7	1012 1	1011 3	.	21 8	19 0	17 3	19 7	77	..	0 4		23 4	0	16	11	6	6	1	0	0	1	5	8	1	0
	0830	,,	1014 1	1013 3		21·9	19 1	17 2	19 6	76		0 8	.	19 9	0	13	15	6	5	4	0	1	2	1	9	0	0
	1130	,,	1015 3	1014 5		23 8	19 5	16 6	19 1	65		0 5		15 9	0	6	22	7	5	6	0	0	1	3	6	0	0
	1730	,,	1011 7	1010 9		24·5	20 5	18 0	20 6	68		0 2	.	19 5	0	13	14	0	4	3	0	0	0	9	11	1	0
	2330	,,	1013 3	1012 5	.	22 5	20 3	18 4	21 4	79	.	0·1		18 7	0	14	14	4	2	0	0	0	2	10	10	0	0
Jamnagar (Aerodrome)	0530	23	1011 9	1009 3		15 4	12 7	9 2	12 5	69		0 3	.	4 9	0	0	13	0	5	0	1	0	1	3	3	15	0
	0830	,,	1013 8	1011·1	—1 6	16 7	13 5	9 6	12 9	67	+11	0 5	—0 7	9 2	0	2	18	1	6	2	0	0	4	4	3	8	0
	1130	,,	1014 7	1012 1		25 3	17·0	8 4	12 7	37		0 6		18 6	0	14	14	7	6	4	0	1	1	4	5	0	0
	1730	,,	1010 8	1008 3		27 2	16 9	6 5	10·9	32	.	0 1	.	24 3	0	18	10	8	4	0	1	0	0	7	8	0	0
	2330	,,	1012 7	1010 1	.	19 7	16 4	13 7	16·0	70		0	..	9 8	0	2	21	5	3	0	0	0	0	10	5	5	0
Dwarka . .	0830	11	1013 7	1012 4	—1 6	21 0	19 1	17 8	20 5	82	+11	0 8	—1 0	12 7	0	7	21	12	3	8	0	0	0	3	2	0	0
	1730	,,	1011 1	1009 8		25 7	21 7	19 2	22 7	70		0 3		17 8	0	12	16	7	2	2	0	0	0	13	4	0	0
Rajkot . .	0530	138	1012 0	995 8		15 0	11 6	8·4	10 9	67	..	0 1	.	2·6	0	0	11	0	3	1	1	0	1	2	3	17	0
	0830	,,	1013 9	997 8	—1 0	17 4	13 9	10 4	13 0	67	+11	0 2	—1 0	7 0	0	4	12	0	6	1	1	0	2	2	2	12	0
	1130	,,	1013 9	9 8 3		27 1	18 8	12·4	15 0	44	.	0 1	..	20 9	0	17	11	4	10	0	1	0	2	5	6	0	0
	1730	,,	1009 6	994 2	.	30 2	19 6	11 4	14 2	34	..	0		21·9	0	18	10	4	5	0	2	0	2	3	12	0	0
Bhavnagar (Aerodrome)	0830	11	1013 7	1012 5	—1 1	18 6	13 3	7 8	10 9	52	+9	0 2	—1 1	13 1	0	7	20	6	3	0	0	1	3	6	6	1	2
	1130	,,	1014 3	1013 1		26 3	17 1	9 1	12 0	36		0·2		19 1	0	13	15	6	14	3	1	0	0	0	2	0	2
	1730	,,	1009 9	1008 7		29 8	17 6	6 4	10 2	26		0·4	.	23 4	0	19	9	2	10	4	7	5	0	0	0	0	0
Porbander(Aerodrome)	0830	7	1013 8	1012 9	—0 7	19 1	14 9	10 3	13 6	64	—6	0·4	—0 7	8 6	0	4	21	7	4	3	3	0	0	1	7	3	0
	1130	,,	1014 3	1013 5		27 9	18 3	9 4	13 2	38	.	5	..	16·9	0	12	15	2	7	3	0	1	5	6	3	1	0
	1730	,,	1010 6	1009 8		27 5	19 5	12 8	16 1	46	.	0 1	.	21·9	0	20	8	1	3	0	0	0	6	17	1	0	0

Sub-Division and Station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g p m of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km per hour	Wind speed (Km p h): 62 or more	Wind speed (Km p h): 20 to 61	Wind speed (Km p h): 1 to 19	No of observations: Wind direction: N	NE	SE	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch Including Diu (*Contd*)																											
Keshod	0830	51	1013 5	1007 5		17 8	13 0	6 8	11 1	55		0 3		12 0	0	3	25	1	13	13	0	0	0	1	0	0	0
	1130	,,	1013 8	1008 0		28 2	16 7	5 2	9 7	29		0 5		19 9	0	12	16	6	9	5	0	0	0	5	3	0	0
	1730	,,	1009 9	1004 1		30 4	17 2	3 0	8 9	23		0 1		24 5	0	20	8	6	4	0	0	1	5	11	1	0	0
Mahuva	0830	9	1012 3	1011 3		19 3	13 8	7 8	11 4	53		1 4		2 4	0	0	20	2	10	1	0	1	2	0	4	8	0
	1730	,,	1009 5	1008 5		28 9	18 9	10 9	13 7	36		2 1		5 5	0	0	26	0	3	2	12	3	6	0	0	2	0
Veraval	0230	8	1011 5	1010 6		18 6	15 1	11 4	14 3	68		0 2		14 4	0	6	22	18	7	0	0	0	0	2	1	0	0
	0530	,,	1011 2	1010 3		17 7	14 0	9 6	13 0	66		0 1		14 6	0	4	24	19	8	0	0	0	0	0	1	0	0
	0830	,	1013 2	1012 3	—1 5	19 0	14 7	9 8	13 2	63	+7	0 1	—1 0	15 0	0	8	20	9	16	1	0	0	0	0	2	0	0
	1130	,,	1013 9	1013 0		28 3	19 4	12 0	15 3	45		0 3		18 6	0	13	15	5	6	1	1	1	3	7	4	0	0
	1430	,,	1011 3	1010 4		28 2	21 4	16 4	20 0	55		0 3		21 0	0	18	10	0	3	1	1	2	5	13	3	0	0
	1730	,,	1010 4	1009 5		26 2	21 8	19 1	22 5	67		0 3		21 9	0	19	9	0	0	1	1	3	6	12	5	0	0
	2030	,,	1011 8	1010 9		23 7	20 6	18 6	21 8	74		0 1		16 1	0	12	16	2	0	2	0	1	3	9	11	0	0
	2330	,,	1012 5	1011 6		20 8	17 7	15 1	17 7	73		0 3		13 1	0	4	24	11	6	2	0	0	0	4	5	0	0
Konkan Including Goa Dahanu	0830	5	1012 4	1010 9	—0 6	21 1	18 6	17 2	20 0	77	+8	0 2	—0 9	7 7	0	1	26	5	1	11	9	0	0	0	1	1	0
	1730	,,	1009 8	1009 3		26 5	24 1	23 2	28 1	81		0		11 2	0	2	26	13	0	1	1	0	0	8	5	0	0
Bombay (Santa Cruz)	0230	14	1010 6	1008 9		19 9	17 1	15 1	17 3	75		0 4		2 5	0	0	14	1	9	3	0	0	0	0	1	14	0
	0530	,,	1010 4	1008 7		19 0	16 1	14 2	16 0	75		0 4		4 3	0	0	21	1	7	11	0	1	0	0	1	7	0
	0830	,,	1012 7	1011 0	—1 4	22 2	17 2	13 4	15 6	60	—2	1 5	+0 5	3 2	0	1	14	2	4	9	0	0	0	0	0	13	0
	1130	,,	1013 1	1011 4		29 4	19 2	11 5	13 9	35		1 3		10 6	0	0	27	4	2	2	5	0	0	3	11	1	0
	1430	,,	1010 1	1008 5		30 3	20 6	14 0	16 3	39		0 8		15 4	0	5	23	2	1	1	0	0	0	6	18	0	0
	1730	,,	1009 6	1008 0		8 1	20 5	15 7	17 9	48	.	0 4		15 7	0	3	25	3	0	0	0	0	0	2	23	0	0
	2030	,,	1011 2	1009 5		24 5	19 5	16 3	18 5	61		0 3		9 1	0	2	21	12	0	0	0	0	0	0	11	5	0
	2330	,,	1011 7	1010 1		22 0	18 2	15 4	17 8	68		0 1	.	4 4	0	0	17	5	5	2	0	0	0	0	5	11	0
Bombay	0830	11	1012 5	1011 2	—1 6	22 8	19 6	17 6	20 2	73	+2	1 6	+0 6	6 6	0	0	27	4	5	13	4	0	0	0	1	1	
	1130	,,	1013 0	1011 8		28 3	21 0	16 6	19 0	50		0 9		7 4	0	1	27	1	3	9	6	0	1	0	8	0	0
	1730	,,	1009 6	1008 4		27 4	21 8	18 6	21 6	59		0 4		14 1	0	6	22	5	0	0	0	0	0	5	18	0	0
Alibag	0830	7	1012 7	1011 9	—0 9	21 7	18 2	15 7	18 1	70	+3	0 8	—0 2	5 1	0	0	26	10	4	6	4	0	0	0	2	2	0
Dhira	0830	96	1012 3	1001 1		18 8	15 9	12 4	14 6	70		1 0		1 0	0	0	7	1	1	0	4	0	0	0	1	21	0
	1730	,,	1007 9	997 3		33 0	20 0	10 0	12 5	25		0 6		3 5	0	0	24	0	0	0	0	1	10	6	7	4	0
Harnai	0830	20	1011 8	1009 5	—0 7	24 5	19 0	15 2	17 5	58	—2	2 1	+0 8	7 6	0	3	20	2	10	8	3	0	0	0	0	5	0
	1730	,,	1009 1	1006 8		26 9	23 0	21 0	24 9	70		1 0		26 1	0	19	9	12	0	0	0	2	0	3	11	0	0
Ratnagiri	0830	35	1011 9	1007 9	—1 3	22 6	18 7	16 0	18 4	68		1 6		7 6	0	0	27	2	7	12	6	0	0	0	0	1	0
	1730	,,	1009 0	1005 1	.	28 2	22 6	19 4	22 8	58		0 5		9 6	0	0	28	2	0	0	0	0	1	10	15	0	0
Devgarh	0830	36	1011 8	1007 8	—0 7	23 6	19 9	17 6	20 2	70	—2	1 4	—0 2	10 8	0	1	26	2	4	20	1	0	0	0	0	1	0
	1730	,,	1008 8	1004 8	.	28 4	23 6	21 1	25 2	65		1 1		25 4	0	22	6	0	0	0	0	0	0	2	26	0	0
Vengurla	0230	9	1010 4	1009 4	.	21 1	19 4	18 3	21 1	84		0 4		0 8	0	0	5	4	0	0	0	0	0	0	1	23	0
	0530	,,	1009 9	1008 9		19 7	18 4	17 5	20 0	87		0 6		1 1	0	0	6	6	0	0	0	0	0	0	0	22	0
	0830	,,	1012 3	1011 3	—0 5	21 1	18 8	17 4	19 7	79	+3	0 9	—0 5	1 1	0	0	8	6	1	0	0	0	0	0	1	20	0
	1130	,,	1012 6	1011 6		30 1	21 4	16 1	18 4	44		0 6		7 9	0	0	26	6	0	3	1	5	7	3	1	2	0
	1730	,,	1008 9	1007 9	..	28 7	22 6	19 2	22 4	57		1 1		8 7	0	0	28	0	0	0	0	0	3	14	11	0	0
	2330	,,	1011 3	1010 3		22 8	20 6	19 3	22 5	81		0 7		1 9	0	0	9	6	1	0	0	0	0	0	2	19	0
Panjim	0530	60	1009 8	1002 9		21 1	19 4	18 3	21 1	84		0 4		9 4	0	1	27	1	12	14	1	0	0	0	0	0	0
	0830	,,	1012 1	1005 2	..	21 9	19 3	17 7	20 2	78		2.3		6 1	0	0	24	1	7	14	2	0	0	0	0	4	0
	1130	,,	1012 5	1005 8	..	29 3	21 0	15 7	18 1	45	.	2 7		9 3	0	0	28	4	2	3	4	1	4	6	4	0	0
	1430	,,	1009 5	1002 8	..	30 5	22 5	18 0	20 8	48	.	1 6		16 9	0	11	17	0	0	2	0	0	4	16	6	0	0
	1730	,,	1008 8	1002 0	.	28 6	22 5	19 1	22 2	57	.	2 3	.	15.6	0	6	22	1	0	0	0	0	2	11	14	0	0
	2030	,,	1010 5	1003 7	..	25 9	21 9	19 6	22 9	69		0 6		7 8	0	0	27	10	2	1	0	0	0	0	14	1	0
	2330	,,	1011 3	1004 5		24 3	20 9	19 0	22 0	73		0 6		6 3	0	0	23	10	10	0	0	0	0	0	3	5	0
Mormugao	0530	62	1009 4	1002 3		22 7	20 2	18 7	21 6	79	.	1.2		8 7 (n)	0	0	17	3	7	15	3	0	0	0	0	0	0
	0830	,,	1011 4	1004 4	.	24 7	20 4	17 7	20 5	66		1 9		7 4 (o)	0	1	13	3	7	12	4	0	0	0	0	2	0
	1130	,,	1011 8	1004 9		28 2	21 6	17 6	20 4	55		1 9		14 1 (n)	0	2	15	1	4	2	1	1	8	2	9	0	0
	1730	,,	1008.0	1001 1		27 9	22 8	20 2	23 5	63		1 7		18 5 (n)	0	8	9	0	0	0	0	0	4	12	12	0	0
Dabolim (Navel Air-Station)	0530	206	1009 9	1004 0		21 6	19 7	18 3	21 4	83		1 7		8 7	0	1	18	1	10	8	0	0	0	0	0	9	0
	0830	,,	1012 3	1006 3		23 6	19 6	17 0	19 6	67		2 2		8·0	0	1	16	1	4	9	3	0	0	0	0	11	0
	1130	,	1012 7	1006 9		28 8	21 4	17 0	19 5	51		1 9		16 3	0	2	26	7	1	1	3	5	6	2	3	0	0
	1730	,,	1008 8	1003 1		28 3	22 6	19 6	22 8	59		1 9		24·6	0	4	24	4	0	0	0	0	1	9	14	0	0

(o) Mean of 16 days, (n) Mean of 17 days,

Sub-Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs	Relative humidity%	Departure from normal	Cloud amount (Oktas)		Mean wind speeds Km. per hour	Wind speed (Km p h)			No of observations									
			At mean sea level or height in g p m of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point				Mean amount	Departure from normal		62 or more	20 to 61	1 to 19	Wind direction								Calm	Variable
																		N	NE	E	SE	S	SW	W	NW		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Maharashtra																											
Nandurbar	0830	206	1013 8	990 1		20 8	13 6	5 6	9 7	41		0 3		5 6	0	0	27	2	0	16	0	0	0	9	0	1	0
	1730	,,	1009 0	986 1		30 9	17 5	5 3	9 1	21	.	0		3 5	0	0	23	6	0	5	0	2	0	10	0	5	0
Jalgaon	0830	201	1014 0	990 5	−0 4	17 4	11 0	3 8	8 0	40	−5	0 2	−0 8	7 6	0	0	26	1	1	12	5	0	4	2	1	2	0
	1730	,,	1008 5	986 3		32 1	17 2	2 7	7 5	16	.	0 5		12 1	0	4	21	4	0	4	2	0	1	0	14	3	0
Malegaon	0830	437	1014 4	963 9	−1 1	16 0	10 2	3 6	7 8	44	−1	0 4	−0 7	3 8	0	0	27	2	0	2	0	0	6	9	8	1	0
	1730	,,	1007 7	959 9		30 8	17 0	4 0	8 2	18		0 7		9 6	0	1	26	2	5	4	1	0	4	7	4	1	0
Ozar	0830	608				17 0	11 3	4 5	8 6	48		0 4		5 6 [d]	0	2	17	1	3	2	0	1	4	3	5	8	0
	1130	,,	.			27 1	15 8	4 9	9 7	26		0 3		14 5 (e)	0	6	20	1	0	8	5	1	3	2	6	0	0
	1730	,,			.	29 4	16 3	5 5	9 0	21		0 5		15 5 [g]	0	10	14	2	0	3	2	2	3	6	6	0	0
Deolali (Aerodrome)	0830	571	1015 0	949 7		16 4	11 8	7 4	10 5	57	.	0 8		4 4	0	0	21	7	2	3	0	0	5	4	0	7	0
	1730	,,	1008 6	946 4		29 5	17 6	8 6	11 4	28		0.6		12 2	0	4	24	2	1	4	0	1	9	7	4	0	0
Ahmadnagar	0830	657	1013 8	939 7	−1 0	18 3	11 7	5 2	9 0	44	+4	1 3	+0 5	4 8	0	0	19	0	1	0	2	0	1	0	15	9	0
	1730	,,	1006 6	936 0	.	30 7	16 8	5 4	9 0	21		1 6	.	10 1	0	3	24	2	6	0	3	0	7	1	8	1	0
Poona (Aerodrome)	0230	593	1011 6	941 4		17 6	12 8	8 5	11 3	57		0 3		5 6	0	1	16	0	1	1	0	0	2	11	2	11	0
	0530	,,	1012 0	944 3	.	15 8	11 6	7 7	10 7	60	.	0 3		6 6	0	2	16	1	1	1	0	0	1	9	5	10	0
	0830	,,	1013 6	946 3	.	18 0	12 7	8 0	10 8	54		1 3		5 5	0	1	15	0	5	1	0	0	2	6	2	12	0
	1130	,,	1011 7	946 6		27 4	16 1	6 8	10 1	28		1 1		15 0	0	12	12	0	4	7	4	0	3	4	1	4	1
	1730	,,	1007 1	942 8		29 9	17 1	7 2	10 1	24		1 5		17 7	0	14	11	2	2	3	0	1	0	10	7	3	0
	2330	,,	1012 1	945 4		19 9	13 7	8 3	11 2	49		0 6		11 5	0	0	28	0	2	2	0	0	3	16	5	0	0
Poona	0530	559	1012 5	948 2	.	13 6	10 1	6 7	9 8	64		0 3		0	0	0	0	0	0	0	0	0	0	0	0	28	0
	0830	,,	1014 0	950 4	−0 9	17 3	12 6	8 4	11 2	57	+4	0 6	−0 2	0	0	0	0	0	0	0	0	0	0	0	0	28	0
	1130	,,	1011 5	950 1	..	27 8	16 6	8 1	10 7	30		1 0		5 4	0	0	24	0	4	9	2	0	0	7	2	4	0
	1430	,,	1007 4	946 9	..	30 9	17 6	7 3	10 4	24		1 7		8 6	0	1	25	0	2	6	1	0	1	15	1	2	0
	1730	,,	1007 1	946 3	.	30 0	17 3	7 5	10 5	25		1 4		5 6	0	1	20	0	2	3	0	0	0	12	4	7	0
	2030	,,	1010 5	948 5	..	24 2	15 4	8 6	11 1	38		0 5		2 9	0	0	18	0	0	1	0	0	1	16	0	10	0
	2330	,,	1012 3	949 2	..	19 3	13 2	7 8	10 7	49		0 5		0 1	0	0	1	0	0	0	0	0	0	1	0	27	0
Jeur	0830	521	1013 5	954 1	−0 8	17 9	11 4	5 8	8 8	46	−1	1 4	+0 4	1 8	0	0	11	0	1	2	2	2	0	2	2	17	0
	1730	,,	1006 6	950 0		31 0	17 1	5 8	9.3	21	.	1 7		5 7	0	0	26	3	5	3	1	4	3	3	4	2	0
Baramati	0830	551	1013 8	951 1	−0 8	17 4	12 7	8 6	11 2	57	+8	0 6	−0 1	6 7	0	0	24	4	2	4	2	0	0	3	9	4	0
	1730	,,	1006 4	947 2	.	30 9	19 6	12 2	14 5	33		0 9		10 6	0	1	26	0	2	9	4	1	2	6	3	1	0
Sholapur	0530	479	1011 3	956 9	.	18 9	13 3	8 4	11 2	52		0 6		7 9	0	0	25	1	6	3	7	2	0	2	4	3	0
	0830	,,	1013 3	959 4	−0.6	21 7	14 6	8 9	11 5	45	+5	0 1	−0 8	7 4	0	0	26	0	10	0	10	0	0	1	5	2	0
	1130	,,	1012 0	959 3	..	29 0	17 9	10 1	12 3	32		0 5	.	13 4	0	2	26	4	5	1	5	2	7	0	4	0	0
	1730	,,	1006 9	955 0	..	31 8	18 6	9 2	11 8	26		0 9		7 5	0	0	25	3	4	3	4	1	4	2	4	3	0
	2330	,,	1010 8	957 4	.	23 9	15 4	8 6	11 3	38		1 1		8 5	0	0	27	1	8	3	7	2	1	1	4	1	0
Miraj	0830	554	1013 8	951 1	−0 7	18 6	13 6	9 8	11 9	57	−1	1 8	+0 9			.		0	0	4	0	0	0	2	0	22	0
	1730	,,	1006 6	946 9	..	31 4	17 9	7.1	10 7	24		2 5			..			0	0	5	2	0	3	7	1	10	0
Kolhapur	0530	570	1010 0	945 4	.	17 1	12 9	9 3	11 9	61		0 3		4 9	0	1	12	0	0	9	0	0	0	4	0	15	0
	0830	,,	1013 1	948 8	−0 9	19 6	14 6	10 8	12 9	58	−1	0 5	−0 3	2 9	0	0	15	0	3	10	1	0	0	1	0	13	0
	1130	,,	1011 2	949 0	..	28 7	17 5	9 1	11 9	30	.	0 5	.	8 6	0	3	23	1	4	13	2	0	0	5	1	2	0
	1730	,,	1006 5	945 0	..	30 7	18 1	8 9	11 5	26	..	1 0		10 9	0	1	26	1	3	11	0	0	0	10	2	1	0
	2330	,,	1011 2	947 5	..	21 2	16 0	12 3	14 4	58		0.4		5 9	0	0	22	0	1	6	1	0	0	12	2	6	0
Marathwada																											
Aurangabad	0830	581	1013 6	948.4	−1 1	20 8	12 8	5 1	9 0	38	−2	0 6	−0 5	5 1	0	1	16	0	4	9	0	1	0	2	1	11	0
	1730	,,	1007 8	944 8	..	30 1	15 9	2 6	8 0	19		1 2		4 7	0	0	17	0	0	2	0	1	1	11	2	11	0
Aurangabad (Chikalthan)	0230	579	1011 8	945 8	.	15 9	9 9	3 5	7 9	44		0 6		2 5	0	0	6	0	0	0	1	0	0	3	2	22	0
	0530	,,	1012 3	945 7	..	13 9	8 7	2 7	7 5	48		0 3	.	1 8	0	0	5	1	1	0	0	0	0	2	1	23	0
	0830	,,	1013 0	947 9	.	20 3	12 6	5 3	9 0	38		0.6	.	2 9	0	0	7	0	1	1	0	0	0	5	0	21	0
	1130	,,	1011 9	948 3		27 3	15 8	6 0	9 6	27		0 6	.	12 8	0	2	26	0	3	7	5	2	2	8	1	0	0
	1430	,,	1007 9	945 1	.	30 1	16 6	5 2	9 0	21		1 1		14 2	0	4	23	3	3	3	1	2	2	11	2	1	0
	1730	,,	1007 2	944 3	.	29 8	16.3	4 8	8 7	21		1 2		10 2	0	3	19	2	1	3	1	0	2	9	4	6	0
	2030	,,	1010 6	946 0		22,6	13 1	4 2	8 2	31		0 6		4 1	0	1	7	2	0	0	0	0	0	5	1	20	0
	2330		1012,1	946 6	.	19 0	11.6	4 2	8 3	39		0 3		2.9	0	0	8	0	2	0	0	0	0	4	2	20	0
Parbhani	0830	423	1014 0	965 7	+0 3	19 4	12 4	4 8	8 8	40	−3	0 5	−0 6	3 7	0	0	22	1	6	0	6	0	2	5	2	6	0
	1730	,,	1007.5	961 5		31 3	16 8	2 6	7 4	16		1 4		8 0	0	2	24	1	6	3	2	1	0	8	5	2	0

[d] Mean of 27 days.

(g) Mean of 24 days.

[e] Mean of 26 days.

Sub-Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs	Relative humidity	Departure from normal	Cloud amount (Oktas)		Mean wind speed, Km per hour	Wind speed (Km p h)			No of observations									
			At mean sea level or height in g p m of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point				Mean amount	Departure from normal		62 or more	20 to 61	1 to 19	Wind direction								Calm	Variable
																		N	NE	E	SE	S	SW	W	NW		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Marthwada—																											
(Contd)																											
Nanner	0830	358	1013 3	972 5		21 5	16 3	11 7	14 1	55		0 4		3 0	0	0	13	0	0	0	0	0	7	5	1	15	0
	1730	,,	1007 7	968 6		31 6	20 4	12 7	14 9	34		0 8		4 7	0	0	22	1	6	1	3	1	0	7	3	6	0
Bir	0830	519	1014 6	955 4		18 6	14 0	10 3	12 6	59	.	0 8		3 1	0	1	12	1	1	0	4	0	4	0	3	15	0
	1730	,,	1008 3	951 8		30 5	18 5	10 5	12 5	30	..	1 8	.	6 6	0	1	23	0	8	0	2	1	6	0	7	4	0
Vidarbha																											
Gondia	0830	313	1014 3	978 3	—0 5	19 1	13 7	8 6	11 3	52	—8	1 1	—0 2	2 3	0	0	21	7	6	2	0	4	1	0	1	7	0
	1730	,,	1009 2	974 5		28 9	17 1	6 5	9 9	25		0 9		2 5	0	0	24	4	2	1	1	4	4	7	1	4	0
Nagpur (Sonegaon)	0230	310	1011 4	975 6		17 5	12 4	7 1	10 3	52		0 4		4 9	0	0	22	9	3	2	2	0	2	0	4	6	0
	0530	,,	1011 9	975 9		15 8	11 4	6 4	9 9	55		0 5		4 7	0	0	21	7	3	1	0	0	0	0	10	7	0
	0830	,,	1014 1	978 4	—0 8	19 6	12 9	5 5	9 5	42	—10	0 6	—1 2	5 6	0	0	23	8	7	4	0	0	0	1	3	5	0
	1130	,,	1012 8	978 1		27 5	16 5	6 3	9 9	27		0 3		11 1	0	4	22	2	6	7	5	1	1	2	2	2	0
	1430	,,	1009 0	974 8	.	30 3	17 4	5 5	9 4	22	.	1 3	.	9 3	0	2	26	4	6	3	5	1	3	4	2	0	0
	1730	,,	1008 5	971 1		29 5	17 0	5 4	9 3	22		1 4		6 7	0	1	24	3	4	6	4	3	1	4	0	3	0
	2030	,,	1011 0	975 9		23 0	14 9	7 3	10 4	37		0 8		4 9	0	0	25	1	6	5	7	1	1	3	1	3	0
	2330	,,	1011 9	976 4		20 4	13 8	7 2	10 4	45		0 8		7 4	0	2	24	7	7	0	4	0	1	2	5	2	0
Amraoti	0830	370	1014 5	972 4	+0 1	21 6	12 6	2 1	7 3	29	—14	0 5	—0 9	4 3	0	0	24	0	15	3	0	1	3	1	1	4	0
	1730	,,	1008 7	968 1		30 1	16 2	2 6	7 2	17		1 0		4 3	0	0	27	2	3	1	3	3	5	6	4	1	0
Akola Aerodrome	0530	309	1010 8	975 1		17 0	10 9	3 8	8 1	43		0 3		11 0	0	0	28	6	3	4	3	0	4	4	4	0	0
	0830	,,	1013 0	977 5		19 8	12 5	4 4	8 6	38		0 6		9 1	0	0	27	2	6	6	3	1	1	2	6	1	0
	1130	,,	1012 3	977 8		27 8	16 6	6 4	9 8	27		0 6		11 0	0	0	28	0	5	10	3	2	1	1	6	0	0
	1730	,,	1007 4	973 3		30 9	17.2	4 2	8 5	19		1 2		9 7	0	2	26	3	5	1	1	1	2	9	6	0	0
	2330	,,	1010 7	975 5		21 9	13 3	3 8	8 0	33		0 4		10 2	0	0	28	2	4	5	6	4	2	3	2	0	0
Akola	0830	282	1013 7	981 2	—0 8	19 3	13 3	7 3	10 4	47	+3	0 6	—0 8	0 5	0	0	6	0	0	0	1	0	0	4	1	22	0
	1730	,,	1007 8	976 8		31 5	19 1	9 5	12 0	26		1 2		2 1	0	0	21	0	3	3	0	0	2	10	3	7	0
Bramhapuri	0830	229	1014 1	987 5		18 9	14 5	10 7	12 9	60		0 4		2 6	0	0	27	7	6	5	4	2	1	0	2	1	0
	1730	,	1008 8	983 3		30 1	18 9	10 2	12 7	30	.	1 3		2 8	0	0	24	4	5	1	3	3	0	2	6	4	0
Buldana	0830	650	1012 9	940 1	—0 6	19 7	12 9	6 6	9 9	45	+2	0 4	—0 7	10 1	0	3	23	1	2	5	5	4	3	0	6	2	0
	1730	,,	1007 2	936 7		28 2	16 3	6 3	9 9	25		0 8	.	8 6	0	0	27	4	3	1	3	1	3	0	12	1	0
Yeotmal	0830	451	1013 1	962 1	—0 5	21 3	12 9	3 5	8 1	34	—8	0 7	—0 9	8 5	0	2	26	5	5	9	1	1	1	4	2	0	0
	1730	,,	1007 7	958 3		30 0	16 4	2 7	7 6	18		1 5		7 8	0	1	26	5	4	2	2	2	1	9	2	1	0
Chanda	0830	193	1013 4	991 1	—1 2	19 6	15 0	11 1	13 3	59	+2	0 5	—0 9	3 9	0	0	27	2	4	7	3	1	4	2	4	1	0
	1730	,,	1008 3	986 9	.	30 9	18 3	7 8	10 8	24		1 5		6 4	0	0	28	5	11	3	2	0	1	3	3	0	0
Pusad	0830	334				19 3	13 8	8 8	11 4	52		0 5		2 9	0	0	24	2	1	3	2	0	1	4	11	4	0
	1730	,,				31 3	20 4	12 7	14 9	34		1,4		4 4	0	0	25	3	7	0	3	1	5	1	5	3	0
Sironcha	0830	123	1014 3	1000 1	—0 3	22 4	17 5	14 0	16 0	59	—6	0 4	—0 2	2 6	0	0	25	2	9	1	13	0	0	0	0	3	0
	1730	,,	1009 1	995 4	.	31 8	19 8	11 0	13 3	28	..	1 2		5 1	0	0	24	2	5	1	5	3	4	2	2	4	0
Coastal Andhra Pradesh																											
Kalingapatnam	0830	6	1014 1	1013 4	—0 7	23 7	21 4	20 2	23 7	81	+2	1 4	—0·4	6 6	0	1	27	10	1	0	1	1	2	2	9	0	2
	1730	,,	1010 9	1010 2	.	26 2	22 8	21 1	25 0	74		1 4		15,6	0	9	19	0	0	0	6	9	3	0	0	0	10
Vishakhapatnam	0230	3	1011 6	1011 2	..	22 1	20 4	19 4	22 7	85	.	1.6	.	1 6	0	0	5	1	0	1	0	0	1	2	0	23	0
	0530	,,	1011·6	1011 2	.	21 0	19 6	18 8	21 7	87	.	1·0	.	0 6	0	0	3	0	2	0	0	0	0	1	0	25	0
	0830	,,	1013 9	1013 5	—0 8	24 8	21 3	19 4	22 5	72	—5	1 4	—1 1	3 7	0	0	11	2	2	2	0	0	2	1	2	17	0
	1130	,,	1013 4	1013 0	.	29 5	21 9	17 4	20 0	49	.	1 9	..	11 3	0	2	24	1	1	5	8	1	8	1	1	2	0
	1430	,,	1010 5	1010 1		29 7	21 8	17 0	19 7	48	.	1 3	.	17 6	0	9	19	0	0	3	13	4	8	0	0	0	0
	1730	,,	1010 5	1010 1	.	26 8	21 9	19 0	22 0	63	..	1 7	.	14 1	0	4	24	0	0	4	10	6	8	0	0	0	0
	2030	,,	1012 7	1012 3		24 8	21 8	20 1	23 7	75		1 7	.	3 3	0	0	11	0	0	3	2	1	5	0	0	17	0
	2330	,,	1012 9	1012·5		23 5	21 1	19 8	23 1	80	.	1 6	.	1 2	0	0	4	0	0	1	1	0	1	1	0	24	0
Kakinada	0830	8	1013 9	1013 1	—0 7	23 4	19 7	17 3	19 7	69	—6	2 5	—0 1	8 6	0	0	28	0	25	0	1	0	2	0	0	0	0
	1730	,,	1010 2	1009 3	.	27 1	21 8	18 8	21 7	61	.	1 7	.	13 1	0	0	28	0	0	0	25	0	3	0	0	0	0
Nidadavole	0830	12	1014 0	1012 5	.	23·4	20 5	18 9	21 8	76		3 5		5 9	0	0	27	3	20	1	0	0	1	1	1	1	0
	1730	,,	1010 0	1008·5		29 4	22 4	18 7	21 6	53		3 8	..	7 4	0	0	28	0	0	15	4	1	3	4	1	0	0
Rentachintam	0830	106	1013 2	1001 0	.	24 1	20 0	17 5	20 0	67	—3	1 1	—1 8	1 5	0	0	16	0	0	5	0	7	3	1	0	12	0
	1730	,,	1008 6	996 9		32 3	21 4	14 3	16 6	34		1 5		2 3	0	0	24	1	0	19	0	3	0	1	0	4	0
Gannavaram	0230	24	1010 9	1008 1		21 3	20 2	19 6	22 7	90	.	0.7		4 3	0	0	15	6	5	4	0	0	0	0	0	13	0
	0530	,,	1011 1	1008 3		21 1	20 3	19.8	22 7	92		1 3		5 3	0	0	18	6	2	9	0	0	0	0	1	10	0
	0830	,,	1013 5	1010.7	—0 6	24 2	21 7	20 4	23 8	80	+2	1 8	—0 3	10 2	0	0	26	0	0	20	3	1	2	0	0	2	0
	1130	,,	1013 2	1010 4	.	29 5	22 1	17 9	20 5	50	.	2 7	.	15 9	0	8	20	0	0	12	6	6	2	1	1	0	0
	1430	,,	1009 9	1007 2		31·7	21 7	15 5	17 7	38	.	2 1	..	15 4	0	5	22	1	0	7	8	8	1	1	1	1	0
	1730	,,	1009 7	1007 0	..	29 7	21 2	15 9	18 3	44	..	2 1	.	16 1	0	9	19	0	0	5	10	11	0	0	2	0	0

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—FEBRUARY 1965 (MAGHA 12,—PHALGUNA 9, 1886 SAKA)

Sub-Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g p m of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km per hour	Wind speed (Km p h): 62 or more	Wind speed (Km p h): 20 to 61	Wind speed (Km p h): 1 to 19	No of observations: Wind direction: N	NE	SE	E	S	SW	W	NW	Calm	Variabel
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Andhra Pradesh—(*Contd*																											
Gannavaram—(*Contd*)	2030	24	1011 9	1009 1		24 1	20 7	18 8	21 7	73		0 9		8 6	0	1	25	0	0	8	8	9	1	0	0	2	0
	2330	,,	1012 3	1009 5		22 3	20 7	19 8	23 1	85		0 6		5 0	0	0	20	3	0	8	3	4	0	1	1	8	0
Nagarjanakonda (R)	0830	126																									
(R)	1730	,,																									
Masulipatam	0830	3	1013 5	1113 1	−1 2	23 8	22 0	21 1	25 0	85	+4	3 0	+0 9	2 8	0	0	25	5	8	6	1	2	2	1	0	3	0
	1730	,,	1010 3	1010 0		27 0	22 3	19 8	23 1	65		2 9		4 1	0	0	28	0	0	12	12	0	0	1	0	0	3
Onagale	0830	12	1013 3	1012 0		24 5	23 0	22 2	26 9	86		2 3		1 0	0	0	12	0	5	1	2	0	0	0	4	16	0
	1730	,,	1009 6	1008 3		28 5	24 1	21 9	26 4	72		2 4		5 1	0	0	28	0	0	26	2	0	0	0	0	0	0
Nellore .	0530	20	1010 9	1008 6		21 8	21 0	20 5	24 3	93		2 6		2 1	0	0	17	0	13	1	1	0	0	0	2	11	0
	0830	,,	1013 0	1010 7	−1 2	24 4	22 1	20 9	24 7	81	0	4 1	+1 7	4 5	0	0	22	1	1	0	8	2	1	0	9	6	0
	1130	,,	1013 0	1010 7		29 7	22 9	19 3	22 4	54		4 3		5 6	0	0	26	1	3	14	6	0	1	1	0	2	0
	1730	,,	1010 0	1007 7		28 6	23 1	20 3	23 8	61		4 5		8 5	0	0	28	0	21	3	4	0	0	0	0	0	0
	2330	,,	1012 3	1010 0		23.7	22 2	21 5	25 6	87		2 3		2 1	0	0	19	0	9	7	1	0	1	0	1	9	0
Telangana Ramagundam .	0830	156	1013 4	995 4	−0 8	22.5	17 7	14 3	16 3	60	+6	0 4	−1 5	3 5	0	0	20	1	0	3	10	2	3	1	0	8	0
	1730	,,	1008 7	991 3		31 9	19 6	10 5	12 8	27		0 5		3 3	0	0	26	2	5	4	8	2	3	1	1	2	0
Nizamabad . .	0830	381	1013 2	970 1	−0 8	22 6	16 1	10 7	13 0	44	−10	0 2	−1 0	0 1	0	0	1	0	0	0	0	1	0	0	0	27	0
	1730	,,	1007 7	966 0		31 6	18 6	7 5	10 9	23		1 0		1 8	0	0	16	1	7	4	0	0	3	0	1	12	0
Haumakonda .	0830	269	1013 3	982 7	−1 3	22 4	18 9	16 5	19 0	70	0	1 6	−0 9	1 9	0	0	22	2	0	0	2	16	0	2	0	6	0
	1730	,	1009 4	979 9		30 7	19 0	10 1	12 4	29		0 5		2 0	0	0	28	14	0	1	7	4	0	1	1	0	0
Hakimpet(Aerodrome)	0530	619	1011 3	943 3		18 7	15 3	12 7	14 9	71		1 4		11 0	0	2	26	2	0	6	13	3	2	0	2	0	0
	0930	,,	1012 5	944 1		21 9	16 7	12 9	14 9	59		2 0		12 9	0	1	27	1	1	2	14	2	1	3	4	0	0
	1130	,,	1011 4	944 4		27 6	18 1	11 4	13 8	38		1 5		16 3	0	5	23	2	2	2	10	4	3	1	4	0	0
	1730	,,	1007 9	941 4		28 9	17 7	9 9	12 2	31		2 5		15 1	0	3	24	0	2	6	9	2	1	6	0	1	1
	2330	,,	1011 1	943 0		22 1	15 8	11 1	13 4	50		0 6		10 4	0	1	26	2	2	4	13	3	1	1	1	1	0
Bhadrachalam	0830	111	1012 9	1000 2	−1 7	23 0	19 9	18 0	20 8	74	+1	1 9	−0 9	2 2	0	0	26	0	14	1	9	1	0	0	1	2	0
	1730	,,	1008 8	996 4		31 3	20 4	13 0	15 1	33		1 4		2 5	0	0	28	2	16	1	7	2	0	0	0	0	0
Hyderabad (Begumpet) .	0230	545	1011 0	949 6		19 7	14 1	11 2	13 5	59	.	0 3		3 9	0	0	20	1	3	6	9	1	0	0	0	8	0
	0530	,,	1011 3	949 5		17 9	14 6	12 0	14 2	69		0 6		3 8	0	0	19	0	0	6	9	0	0	1	2	9	1
	0830	,,	1013 1	952 0	−0 7	21 1	15 8	12 0	14 1	58	−8	2 1	+0 3	7 3	0	0	21	1	0	4	10	0	1	1	4	7	0
	1130	,,	1011 9	952 1		28 1	17 5	9 9	12 2	33		1 3		13 0	0	2	26	0	1	3	11	4	4	0	5	0	0
	1730	,,	1007.6	948 5		29 7	17 2	7 6	10 5	26		2 2		10 4	0	1	27	1	2	6	9	5	3	1	1	0	0
	2330	,,	1011 7	950 7		21 8	15 5	10 7	13 0	50		0 6		5 9	0	1	23	3	5	1	11	2	0	1	1	4	0
Khammam . .	0830	112	1013 5	1000 7		23 7	20 7	18 9	22 0	76		3 3		4 0	0	0	21	1	1	5	7	6	0	0	1	7	0
	1730	,,	1008 6	996 2		32 0	20 6	12 9	15 0	32	.	3 2		4 5	0	0	21	2	0	6	4	2	0	6	1	7	0
Mahbubnagar . .	0830	505	1012 4	956 1		23 3	16 9	12 3	14 6	51		1 9		7 8	0	0	26	1	5	1/3	1	1	2	0	3	2	0
	1730	,,	1007 4	952 4	.	30 2	17 7	8 5	11.1	26	..	2 1		5 6	0	0	27	0	1	1/3	4	3	2	3	1	1	0
Rayalaseema Kurnool .	0830	281	1012 9	980 9	−0 9	22 7	17 9	14 4	16.6	60	+1	1 0	−0 1	5 1	0	0	26	0	3	0	4	0	6	2	11	2	0
	1730	,,	1007 5	976 7		32 4	20 4	12.2	14 2	30		2 1		5 6	0	0	26	1	2	2	10	1	2	2	6	2	0
Nandyal (R) . .	0830	212																									
(R)	1730																										
Anantapur .	0530	350	1010 6	970 7		19 7	16 4	13.8	16 0	69	..	0 5		1 9	0	0	7	0	0	6	0	1	0	0	0	21	0
	0830	,,	1012 6	973 1	−0 5	23 4	18 3	14 6	16 9	59	+5	1 5	+0 2	6 1	0	1	18	1	2	6	4	1	4	1	0	9	0
	1130	,,	1011 4	972 7		29 3	19 8	13 3	15 4	39	.	1 3		11 7	0	2	23	2	3	1/2	5	1	1	0	1	3	0
	1430	,,	1007 5	969 3		31 6	20 2	2 2	14 4	31	.	2 4		11 4	0	5	17	0	2	1/8	1	0	0	0	1	6	0
	1730	,,	1007 0	969 7		31 1	20 2	12 6	14 8	33		2 3		9 3	0	3	18	1	2	1/5	1	0	1	1	0	7	0
	2030	,,	1009 5	970 7		27 5	19 1	13 2	15 3	41		1 0	.	10 4	0	3	17	0	1	15	3	0	0	1	0	8	0
	2330	,,	1010.0	971 4		25 3	18 1	12 8	14 9	47	.	0 7		13 1	0	5	20	0	0	15	10	0	0	0	0	3	0
Cuddapah . .	0830	130	1013 1	998 2	−0 9	24 4	20 6	18 4	21 1	70	+6	1 2	−0 2	1 1	0	0	7	0	0	7	0	0	0	0	0	21	0
	1730	,,	1008 4	993 9	.	31 7	22 6	17.2	20 0	43	..	2 2		3 9	0	0	22	0	1	20	0	0	0	0	1	6	0
Arogyavaram . .	0830	701	1013 0	935 1	.	20 9	16 2	12 8	14 7	63	..	3 4	.	6 2	0	0	24	1	0	0	11	6	5	0	1	4	0
Madras State (Including) Pondicherry)	1730	,,	1007 6	931 8		27 7	18 0	11 2	12 8	38	.	3 5	.	9 9	0	1	27	3	0	19	2	3	0	1	0	0	0
Madras	0830	6	1013 1	1012 4		25 1	22.6	21 2	25 9	79		3 8	.	4 8 (d)	0	0	22	1	4	2	2	2	4	4	0	6	3
	1730	,,	1009 9	1009 2		27 2	22 9	20 7	24 4	68	..	3 4		7 4	0	0	27	2	8	7	9	1	0	0	0	0	0
Madras (Minambakam)	0230	16	1010 8	1009 0		22 9	21 7	21 0	25 0	89	..	2 5	.	3 1	0	0	18	1	1	2	2	0	2	6	4	10	0
	0530	,,	1010 9	1009 1		22 3	21 2	20 7	24 4	91		2 6		4 4	0	0	21	3	0	0	0	1	4	8	5	7	0
	0830	,,	1013 3	1011 5	−0 9	24 8	22 5	21 2	25 3	81	+1	3.9	+1 7	6 5	0	0	26	5	2	1	0	1	3	11	3	2	0
	1130	,,	1012 9	1011 2	.	29 2	22 8	19 3	22 5	55	.	4 3	.	11 3	0	2	25	2	9	7	1	6	1	0	0	1	1
	1430	,,	1010 0	1008 3	.	29 8	23 0	19 4	22 4	54	.	3 9		13 6	0	3	25	2	9	11	3	2	1	0	0	0	0
	1730	,,	1010 0	1008 2		27 6	22 8	20 3	23 8	65		4 0		14 5	0	2	26	1	8	1/1	5	3	0	0	0	0	0

(R) Register not received.

(d) Mean of 27 days.

Sub-Division and Station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g p m of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km per hour	Wind speed (Km p h): 62 or more	Wind speed (Km p h): 20 to 61	Wind speed (Km p h): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State (Including) Pondicherry — (Contd.)																											
Madras (Minmbakam)— *(Contd.)*	2030	16	1012 1	1010 3		25 3	22 6	21 2	25 3	78		2 2		9 1	0	0	28	4	8	7	7	2	0	0	0	0	0
	2330	,,	1012 4	1010 6		24 1	22 2	21 2	25 3	84		2 1		6 9	0	0	25	3	9	3	8	1	0	0	1	3	(
Vellore	0530	214	1011 3	986 7		20 1	18 9	18 3	20 9	90		2 6		0	0	0	0	0	0	0	0	0	0	0	0	28	0
	0830	,,	1013 3	988 8	—0 9	22 1	19 8	18 5	21 3	80	—2	4 5	+2 1	1 0	0	0	9	1	1	0	0	1	1	4	1	19	0
	1130	,,	1012 9	988 9		27 9	21 1	16 9	19 5	52		3 7		4 8	0	0	27	4	8	1	1	1	5	4	3	1	0
	1730	,,	1009 2	985 0		29 9	20 5	14 3	16 5	40	.	3 5	.	10 3	0	0	28	0	8	9	9	2	0	0	0	0	0
	2330	,,	1012 5	987 8		23 9	20 4	18 3	21 2	71	.	1 4		2 6	0	0	19	0	4	9	4	2	0	0	0	9	0
Tambaram (Aerodrome)	0830	29	1012 8	1009 5		25 2	23 1	22 1	26 6	83		3 8		7 1	0	1	21	4	1	1	0	0	6	4	6	6	0
	1730	,,	1009 6	1006 4		28 0	23 3	20 7	24 4	66	.	3 9		24 6	0	18	10	1	11	11	5	0	0	0	0	0	0
Tiruppattur	0830	390	1013 4	968 9		19 4	17 9	16 9	19 3	82		7 1		2 8	0	0	26	24	1	1	0	0	0	0	0	2	0
	1730	,,	1008 2	965 1		28 7	20 2	14 7	16 7	46		7 0		7 4	0	0	28	10	8	7	1	2	0	0	0	0	0
Mettur Dam R S.	0830					24 6	21 5	19 8	23 1	75	.	2 6	.	3 8	0	0	23	0	8	0	4	0	2	0	9	5	0
	1730	,,				28 1	24 5	22 8	27 7	73	.	4 5		6 0	0	0	28	0	11	0	8	0	8	0	1	0	0
Cuddalore	0530	12	1010.4	1009 0	.	22 2	21 1	20 9	24 7	90	.	4 7	.	0 7	0	0	4	1	3	0	0	0	0	0	0	24	0
	0830	,,	1012 8	1011 5	—1 3	24 1	22 4	21 5	25 6	85	+1	5 5	+2 5	4 7	0	0	24	3	11	0	7	0	1	0	2	4	0
	1130	,,	1012 6	1011 3	.	28 0	23 4	21 0	24 9	66	.	5 1		9 6	0	2	26	0	14	1	11	1	1	0	0	0	0
	1730	,,	1009 7	1008 3	.	26 9	23 4	21 6	25 8	73		4 2		13 4	0	2	26	0	15	4	9	0	0	0	0	0	0
	2330	,,	1010 8	1010 5	..	25 0	22 6	21 4	25 5	80		4 1	.	4 5	0	0	18	1	12	0	5	0	0	0	0	10	0
Kallakkurichchi	0830	127	1012 9	998 4		23 7	20 9	19 2	22·2	77		3 9		4 8	0	0	20	9	0	0	0	0	0	3	8	8	0
	1730	,,	1008 6	994 4		30 3	21 0	14 8	16 8	42		3 7		11 5	0	1	27	0	14	7	7	0	0	0	0	0	0
Salem	0530	278	1010 5	978 9		21 4	18 2	16 1	18 3	73		2 4		3 0	0	0	11	0	1	10	0	0	0	0	0	17	0
	0830	,,	1012 9	981 4	—1 2	23 4	19 0	16 0	18 2	64	—10	4 0	+2 3	2 4	0	0	10	0	0	10	0	0	0	0	0	18	0
	1130	,,	1011 7	980 8	.	29 2	20 0	13 7	15 7	40	.	3 8	.	7 4	0	0	26	0	5	14	4	0	0	0	0	2	3
	1730	,,	1007 3	976 7	.	30 9	19 9	11 9	13 9	32	.	5 0	.	9 6	0	1	25	0	2	19	3	2	0	0	0	2	0
	2330	,,	1011 3	980 0	..	24 9	19 1	15 1	17 1	55		2 8		11 9	0	4	21	0	1	24	0	0	0	0	0	3	0
Coimbatore (Pilamedu)	0530	399	1011 2	965 8		19 2	17 2	15 8	18 1	81	.	2 3	.	4 6	0	0	19	5	4	2	1	0	1	0	0	15	0
	0830	,,	1013 2	968 2		22 3	18 8	16 5	19 0	71		3 1	.	11 1	0	1	24	7	12	4	1	1	0	0	0	3	0
	1130	,,	1011 9	967 7	.	27 7	19 4	13 5	15 7	43	.	3 7	..	14 1	0	5	20	3	15	5	1	0	0	0	0	3	1
	1730	,,	1007 3	963 7		30 2	19 4	11 3	13 7	33	.	4 1		21 2	0	13	15	0	9	16	0	1	2	0	0	0	0
	2330	,,	1011 6	966 8	.	23 1	18 7	15 6	18 1	64		1 7	.	13 6	0	4	21	0	6	12	0	5	2	0	0	3	0
Coimbatore	0830	409	1013 0	967 1	—0 9	22 8	19 0	16 4	18 6	68	—10	3 5	+0 5	20 0	0	20	7	0	2	13	12	0	0	0	0	1	0
Nagapattinam	0830	9	1012 8	1011 7	—1 0	25 8	22 8	21 3	25 3	76	—1	5 0	+1 3	11 1	0	5	21	4	10	3	2	1	0	0	6	2	0
	1730	,,	1009 4	1008 3	.	27 2	23 4	21 6	25·8	72	.	4 4	.	19 9	0	15	13	1	16	7	4	0	0	0	0	0	0
Tiruchchirappalli	0230	88	1010 3	1000.3	.	22 7	21 3	20 5	24 1	88		2 7	.	9 1	0	3	18	4	17	0	0	0	0	0	0	7	0
	0530	,,	1010 3	1000 2		21 9	20 8	20 2	23 7	90		3 7		6 3	0	0	16	3	12	1	0	0	0	0	0	12	0
	0830	,,	1012 6	1002 6	—1 7	24 3	21 7	20 3	23 8	79	—2	4 1	+1 8	11 5	0	3	21	11	8	0	2	0	1	1	1	4	0
	1130	,,	1012 1	1002 3	.	28 8	22.4	18 7	21 6	55		4 5		15 6	0	9	17	3	17	2	2	1	0	1	0	2	0
	1430	,,	1008 6	998 8	.	31 5	22 6	17 5	20 0	44		4 6		17 0	0	10	17	1	17	6	1	0	1	1	0	1	0
	1730	,,	1008 2	998 4	..	30 5	22 2	17 7	20 2	46	.	4 6	.	19 0	0	12	16	0	12	14	1	0	0	0	1	0	0
	2030	,,	1010 6	1000 7	..	26 2	21 8	19.4	22 5	67		2 4		16 1	0	6	22	0	8	14	5	1	0	0	0	0	0
	2330	,,	1011 6	1001 6	..	23 8	21 7	20 6	24 3	83		2 4		11 7	0	0	27	2	12	8	4	1	0	0	0	1	0
Vedaranniyam	0830	4	1012 7	1012 2	..	25 2	23 0	21 7	25 9	80		2 0		5 0	0	0	27	7	16	0	3	0	0	0	1	1	0
	1730	,,	1009 5	1009 0	..	26 9	23 5	21 8	26 1	74		1 7		4 0	0	0	27	6	16	0	5	0	0	0	1	0	0
Atirampattinam	0830	6	1012 4	1011 7		24 2	22 6	21 7	25 9	87		4 0		8 6	0	0	28	11	3	0	1	1	0	0	12	0	0
	1730	,,	1009 2	1008 5	.	28·5	22 9	19 6	22 8	60		4 0		15 3	0	2	26	3	15	0	8	2	0	0	0	0	0
Madurai	0830	133	1012 8	998 0	—0 8	24 5	21 6	19 9	23 4	73	—3	3·4	+0 1	4 1	0	0	27	13	6	0	0	0	0	1	6	1	1
Madurai Aerodrome	0530	131	1010 6	995 5	.	21 8	20.5	19 8	23 1	88		3 5	.	6 7	0	2	19	2	18	0	0	0	0	0	1	7	0
	0830	,,	1013 0	998 1	..	24 6	21 7	20 0	23.4	76		4 3		9 3	0	1	25	15	10	1	0	0	0	0	0	2	0
	1130	,,	1012 1	997 3	.	28 9	22 8	19 4	22 5	57		4 7		11 9	0	2	26	8	14	4	0	0	0	0	2	0	0
	1730	,,	1008 3	993 6	.	30 4	22 4	17 8	20 4	47	.	4·4		14 0	0	5	23	1	15	11	1	0	0	0	0	0	0
Tondi	0830	5	1012·6	1012 0	..	24 9	22 8	21 8	26 1	83	..	4 0	.	10 5	0	2	26	19	5	1	2	0	0	0	1	0	0
	1730	,,	1009·0	1008 4	.	27 5	24 2	22 6	27 4	75	.	4 0		21 5	0	18	10	1	14	11	2	0	0	0	0	0	0
Pamban	0830	11	1011·8	1010 5	—1 6	25 8	23 9	22.8	28 4	84	+5	4 6	+2 0	8 0	0	2	25	1	17	7	0	2	0	0	0	1	0
	1730	,,	1008 7	1007 4	.	27 0	24 3	23.1	28 1	80	.	4 7		8 9	0	1	27	1	21	4	1	1	0	0	0	0	0
Tuticorin	0830	4	1012 6	1012 2	—0 8	25 4	22 7	21 2	25 2	78	+3	2.8	—0 2	11 0	0	2	26	14	8	0	0	0	1	0	5	0	0
	1730	,,	1008.6	1008.2		27 6	24 2	22 5	27 3	74	..	4 1		28 0	0	28	5	0	10	15	1	1	0	0	1	0	0
Palayankottai	0830	51	1012 8	1007 0	—0 5	25 2	21 8	20 0	23.4	73	—2	5 9	+2 0	7 2	0	9	28	24	0	0	0	0	0	3	1	0	0
	1730	,,	1008 1	1002 4	..	30.5	22.4	17 6	20 1	48	..	5·0	..	12 6	0	0	28	5	8	11	2	1	0	0	0	0	1

Sub-Division and Station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas)		Mean wind speed in Km per hour	Wind speed (Km p h)			No of observations									
			At mean sea level or height in g p m of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point				Mean amount	Departure from normal		62 or more	20 to 61	1 to 19	Wind direction								Calm	Variable
																		N	NE	E	SE	S	SW	W	NW		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State (Including Pondicherry)—(*Contd.*)																											
Kanniyakumari	0830	37	1011 3	1007 3		26 3	21 4	18 5	21 3	63		3 5		21 7	0	19	8	11	13	1	0	0	0	1	1	1	0
	1730	,,	1007 6	1003 6		28 2	22 9	19 9	23 2	62		4 0		24 9	0	21	7	0	13	10	1	1	0	2	1	0	0
Coastal Mysore																											
Karwar	0830	4	1012 2	1011 7	−0 6	21 8	19 6	18 2	20 9	80	0	1 2	−0 7	4 7	0	0	27	0	1	16	4	0	0	0	0	1	6
	1730	,,	1008 7	1008 2		28 9	24 5	21·4	25 5	67		1 0		16 0	0	8	20	0	0	0	0	0	0	0	24	0	4
Honavar	0830	26	1012 2	1009 2	−1 3	22 7	19 0	16 6	19 0	70	−4	3 5	+1·1	4 1	0	0	27	0	0	27	0	0	0	0	0	1	0
	1730	,,	1008 3	1005 4		29 3	23 3	20 2	23 7	60		3 0		7 4	0	0	27	1	0	1	0	0	1	11	13	1	0
Mangalore (Bajpe)	0230	102	1009 5	997 9		23 1	21 3	20 2	23 8	84		1 5		3 0	0	0	20	1	4	14	1	0	0	0	0	8	0
	0530	,,	1009 5	997 8		22 0	20 2	19 1	22 2	84		2 3		3 9	0	0	22	0	0	21	1	0	0	0	0	6	0
	0830	,,	1011 8	1000 3	.	24 7	20 9	18 5	21 6	70		2 7		5 5	0	0	26	0	2	24	0	0	0	0	0	2	0
	1130	,,	1011 5	1000 2		30 7	21 5	15 6	18 1	42		3 0		8 6	0	1	24	1	0	9	6	0	2	2	5	3	0
	1430	,,	1008 2	996 9		31 4	22 4	16 8	19 7	44		3 1	.	12 9	0	1	27	0	1	4	1	0	1	18	3	0	0
	1730	,,	1007 7	996 4	..	29 1	22 5	18 9	21 8	55		3 2	.	12 6	0	0	28	0	0	0	0	0	0	22	6	0	0
	2030	,,	1010 1	998 6		25 9	22 5	20 7	24 4	73		2 6	.	5 1	0	0	24	1	0	0	0	0	0	7	16	4	0
	2330	,,	1010 7	999 1		24 6	22 2	20 9	24 9	80		1 9	.	2 3	0	0	13	8	1	2	0	0	0	0	2	15	0
Mangalore	0830	22	1011 7	1009 2	−1 5	25 1	21 2	18 7	22 1	69	−4	1 9	+0 1	4 0	0	0	28	1	1	20	5	1	0	0	0	0	0
	1730	,,	1008 0	1005 5		29 0	24 5	22 0	26 9	65		1 8		6 2	0	0	28	0	0	0	0	0	2	4	15	0	7
Interior Mysore, North																											
Bidar	0830	664	1012 9	939 0	.	21 3	16 3	13 0	14 9	63	+10	0 3	−1 1	10 4	0	14	14	4	3	4	3	3	7	2	2	0	0
	1730	,,	1007 4	935 7		29 1	18 2	10 9	12 9	34		0 4		10 9	0	4	19	2	8	0	4	3	2	4	0	5	0
Gulbarga	0830	458	1013 0	961 4	−1 0	22 5	15 1	9 2	11 8	43	−5	0 6	−0 1	4 3	0	0	18	2	1	7	1	1	0	0	1	15	0
	1730	,,	1006 9	957·2		31 7	17 7	6 3	10 0	21		2 1		9 1	0	2	26	0	3	12	3	5	1	2	2	0	0
Bijapur	0830	594	1012 7	946 2	−1 1	21 1	15 6	11 6	13 7	56	+4	0 5	−0 5	1 5	0	0	15	2	0	2	4	3	0	0	4	13	0
	1730	,,	1007 3	943 2		30 9	19 6	12 5	14 5	33		1 8		1 8	0	0	22	4	4	5	2	0	1	4	2	6	0
Raichur	0830	400	1012 5	967 6	−1 1	23 5	17 5	13 1	15 2	53	−1	3 3	+2 3	3 8	0	0	21	1	5	0	8	1	2	0	3	7	1
	1730	,,	1007 2	963 8	.	31 6	19 2	9 8	12 2	28	.	3 0		5 3	0	0	25	0	8	0	13	0	2	0	2	3	0
Belgaum	0830	753	1012 8	929 1	−1 0	19 9	14 7	10 6	12·9	56	−3	0 4	−0 7	1 8	0	0	14	0	0	12	0	0	0	2	0	14	0
	1730	,,	1006 3	925 5		28 8	17 1	8 0	10 9	28		1 6	.	6 1	0	0	28	0	0	6	6	2	3	9	2	0	0
Belgaum (Samba)	0530	747	1011 2	927 4	.	16 9	12 9	9 5	11 9	63	.	1 1		3 0	0	0	14	0	4	5	4	0	1	0	0	14	0
	0830	,,	1012 5	929 5		20 4	14 5	9 8	12 2	52	.	2 4	.	5 5	0	0	23	0	8	3	7	1	1	3	0	5	0
	1130	,,	1011 0	929 9	.	27 0	16 3	7 6	10 8	31		2 6		11 6	0	2	26	2	5	3	13	1	1	3	0	0	0
	1430	,,	1006 9	926 8		29 7	16 5	5 5	9 1	23		2 9	.	10 2	0	3	25	0	4	5	8	3	3	3	2	0	0
	1730	,,	1006 2	926 1		29 4	16 7	6 6	9 7	24	.	2 5	..	10 0	0	3	25	0	2	6	5	2	3	9	1	0	0
	2030	,,	1009 9	928 0		23 5	16 9	12 2	14 5	51		0 9		8 9	0	0	25	0	1	4	0	0	4	16	0	3	0
Gadag	0530	650	1010 9	938 1		18 9	15 6	13 2	15 3	70		1 0	.	5 6	0	0	22	1	0	5	7	1	1	6	1	6	0
	0830	,,	1012 8	940 1	−1 0	20 1	15 9	12 9	14 9	65	+8	1 3	+0 4	3 4	0	0	19	1	3	4	6	0	1	4	0	9	0
	1130	,,	1011 1	940 5		28 2	18 4	11 4	14 0	36		2 3	.	9 4	0	2	25	2	2	5	9	1	1	5	2	1	0
	1430	,,	1007 1	937 3	..	31 1	19 3	11 2	13 7	31	.	2 5	.	8 5	0	0	27	1	10	8	2	1	0	3	2	1	0
	1730	,,	1006·4	936 6		30 7	18 8	10 4	13 0	30		2 3	.	4 8	0	0	26	0	7	8	2	0	1	5	3	2	0
	2030	,,	1009 5	938 4		25 8	17 1	10 9	13 2	40		0 9		5 4	0	0	23	0	3	8	4	0	2	6	0	5	0
	2330	,,	1011 0	939 0	.	22 6	16 6	12 3	14 5	53	.	0 8		6 3	0	0	26	0	1	8	4	0	0	13	0	2	0
Interior Mysore South																											
Bellary	0830	449	1012 6	962 0	−1·1	22 4	17 3	13 4	15 6	59	+5	1 3	−0 1	5 7	0	0	22	0	0	3	8	4	2	0	5	6	0
	1730	,,	1007 1	958 1		31 9	19 4	9 9	12 3	27		3 4		7 6	0	0	27	0	0	7	13	1	1	0	5	1	0
Chitradurga	0830	733	1012 3	931 2	−0 8	21 6	17 5	14 9	16 9	67	+13	2 5	+0 9	5 1	0	0	22	0	0	11	3	3	2	3	0	6	0
	1730	,,	1008 9	927 4		29 7	20 0	14 7	16 3	39		3 0		2 3	0	0	15	0	0	14	0	0	0	1	0	13	0
Shimoga	0830	571	1012 9	948 6	−0 7	19 4	16 6	14 6	16 6	75	−1	4 2	+1 6	2 6	0	0	27	2	3	6	2	5	8	1	0	1	0
	1730	,,	1005.6	944 0		30 0	18 9	10 6	13 2	31		3 2		6 1	0	0	23	1	3	11	1	1	5	1	0	5	0
Agumbe	0830	.		..		19 0	16 8	15 4	17 5	81			.	7 6	0	1	26	0	19	6	2	0	0	0	0	1	0
Balehonnur	0830				..	20 3	16 5	14 0	16 0	68	−12	..						..								.	.
Hassan	0830	960	1512 9	907 2		17 2	14 9	13 2	15 3	78	+10	1 7	−0 5	2.6	0	0	28	3	2	11	3	0	3	5	1	0	0
	1730	,,	1498 5	903 7		27 5	16 6	7 8	10 9	30		3 7		2 3	0	0	26	0	2	12	6	1	0	3	2	2	0
Bangalore	0230	921	1498 1	909 6		18 0	15 5	13 7	15 8	77	.	0 9	.	5 7	0	0	23	0	0	15	6	0	1	1	0	5	0
	0830	,,	1518 2	911 6	−0 8	19 0	15 5	13 0	15 1	70	0	3 0	+1 2	6 3	0	0	25	0	1	13	6	1	4	0	0	3	0
	1130	,,	1530 4	911 5	..	25 7	16 9	10 5	12 9	39		2 9	.	9 9	0	2	25	1	1	14	7	0	4	0	1	1	0
	1430	,,	1508 8	908 8	.	27 7	17 5	10 1	12.5	34		3 8		7 6	0	1	21	0	0	14	6	0	0	0	2	6	0

Sub-Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g p m of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km per hour	Wind speed (Km p h): 62 or more	Wind speed (Km p h): 20 to 61	Wind speed (Km p h): 1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore, South—*Contd*																											
Bangalore—*Contd*	1730	921	1503 3	908 4		26 7	17 1	10 2	12 5	37		3 8		7 0	0	0	24	1	1	16	4	0	1	0	1	4	0
	2030	,,	1511 4	910 1		22 4	16 3	12 0	14 1	53		1 4		5·8	0	1	21	0	0	19	2	0	0	0	1	6	0
Bangalore Aerodrome	0530	897	1491 1	911 9		16 4	14 9	14 2	15 9	84		1 9		3 5	0	0	13	0	1	10	1	1	0	0	0	15	0
	0830	,,	1517 5	914 1		19 0	15 9	13 4	15 9	73		3 6		6 4	0	0	21	0	1	11	3	1	3	1	1	7	0
	1130	,,	1529 6	913 9	.	25 4	16 8	10 4	12 9	41		2 7		11·8	0	0	27	0	0	15	5	3	2	2	0	1	0
	1730	,,	1500 4	910 6	.	27 0	17 3	10 2	12 4	37		4 0		11 0	0	1	24	1	0	19	3	0	2	0	0	3	0
	2330	,,	1512 8	913 4		20 0	16 2	13 5	15 5	67		1 4		9 1	0	0	24	0	0	16	6	0	1	1	0	4	0
Mysore	0830	767	1013 0	927 9	—0 7	20 8	16 3	13 2	15 3	62	—4	1 5	—0 7	7 9	0	0	28	2	2	8	2	5	7	0	2	0	0
	1730	,,	1006 3	924 1		28 9	17 2	8 4	11 1	29		1 9		11 3	0	5	23	4	10	7	2	1	2	1	1	0	0
Kerala																											
Calicut	0530	5	1010 0	1009 4		23 2	21 8	21 0	25 0	87		1 0	.	3 8	0	0	19	0	2	16	0	0	0	1	0	9	0
	0930	,,	1011 6	1011 0	—1 4	24 6	21 8	20 2	23 8	77	—2	2 8	+0 7	5 1	0	0	25	1	4	17	2	0	0	0	1	3	0
	1130	,,	1011 9	1011 3		29 6	23 5	20 7	24 3	59	.	3 5		10 2	0	2	26	0	0	0	0	0	8	10	10	0	0
	1730	,,	1008 2	1007 6		29 4	24 5	22 2	26 6	65		3 1		13 8	0	2	26	0	0	0	0	0	0	9	19	0	0
	2330	,,	1011 0	1010 4		26 4	23 3	21 7	25 9	75		1 7		6 0	0	1	22	10	4	0	1	0	0	0	8	5	0
Palghat	0830	97	1012 2	1001 1		26 0	21 0	18 1	20 8	62		2 4		9 4	0	0	27	0	0	25	0	0	0	2	0	1	0
	1730	,,	1006 8	996 0		32 8	21 5	14 2	16 3	34		3 5		9 3	0	0	28	2	16	1	7	2	0	0	0	0	0
Port Cochin	0830	3	1011 8	1011 5	—1 1	26 6	22 7	20 7	24 4	71	—2	5 0	+3 2	6 2	0	0	27	3	13	11	0	0	0	0	0	1	0
	1730	,,	1007 6	1007 3		27 6	24 7	23 2	28 6	71		5 2	.	11 2	0	0	28	0	0	0	0	0	1	14	13	0	0
Cochin (Naval Air Station)	0230	3	1009 4	1009 1		24 6	23 0	22 3	26 7	87		2 2		0	0	0	0	0	0	0	0	0	0	0	0	28	0
	0530	,,	1009 4	1009 1	.	23 5	22 1	21 4	25 5	88		1 9		0 3	0	0	2	0	1	1	0	0	0	0	0	26	0
	0830	,,	1011 7	1011 3		26 0	22 6	20 7	24 6	73		3 3		1 0	0	0	5	0	4	1	0	0	0	0	0	23	0
	1130	,,	1011 5	1011 2		30 3	23 1	19 3	22 6	53		3 7		10 7	0	0	24	1	2	3	0	0	5	5	7	4	1
	1730	,,	1007 5	1007 1		29 3	23 9	21 2	25.2	62		4 6		15 5	0	1	27	0	0	0	0	0	3	20	5	0	0
	2330	,,	1010 9	1010 6	..	25 8	23 5	22 4	27 2	82	.	2 8	.	0 6	0	0	2	0	0	0	1	0	0	0	1	26	0
Alleppey	0830	4	1011 4	1011 0	—0 7	26 0	23 1	21 6	25 9	77	—1	3 2	—1 3	3 6	0	0	27	0	3	17	7	0	0	0	0	1	0
	1730	,,	1007 6	1007 2		29 4	24 8	22 6	27 6	68		3 3		23 0	0	25	3	1	0	0	0	0	6	8	13	0	0
Punalur	0830	34	1011 5	1007 6		23 8	21 6	20 5	24 0	83		4 0		0 2	0	0	2	0	0	1	1	0	0	0	0	26	0
	1730	,,	1008 2	1004 3	.	30 0	25 4	23 2	28 6	67		6 2		4 6	0	0	28	0	0	0	14	14	0	0	0	0	0
Trivandrum	0230	64	1009 0	1001 7		24 6	22 3	21 3	25 0	82		2 3		2 1	0	0	12	3	4	1	0	0	1	0	3	16	0
	0530		1008 2	1001 8		23 7	21 5	20 3	23 8	82	..	2 4		5·4	0	0	24	5	9	4	1	0	0	0	4	4	1
	0830	,,	1011 3	1004 0	—1 4	25 4	22 2	20 5	24 1	75	—3	3 8	+1 7	3 9	0	0	20	4	9	3	0	1	0	0	3	8	0
	1130		1010 7	1003 5		30 6	22 8	18 4	21 4	49		4 7		5 8	0	0	25	2	3	2	2	1	7	4	4	3	0
	1430		1007 8	1000 6	..	30 5	23 2	19 3	22 4	52		4 7		10.4	0	0	28	1	0	0	0	0	16	8	3	0	0
	1730	,,	1007 8	1000 6		29 1	23 5	20 7	24 4	61		4 3		8 6	0	1	27	1	2	0	0	2	7	14	2	0	0
	2030	,,	1010 2	1002 9		26 8	23 2	21 5	25 5	73	.	2 9		4 2	0	0	22	5	2	1	0	1	4	3	6	6	0
	2330	,,	1010 7	1003 4		25 7	22 7	21 0	25 2	76		2 2		4 1	0	0	19	4	1	0	0	0	0	2	11	9	1
Trivandrum Aerodrome	0830	8	1011 4	1010 5		26 6	22 5	20 3	23 8	69		4 8		6 9	0	1	18	3	5	9	0	0	0	0	0	9	2
Arabian Sea Islands																											
Amini	0530	4	1009 6	1009 2		25 0	22 7	21 4	25 6	81		3 3		4 6	0	0	19	0	3	0	0	0	0	6	8	9	2
	0830	,,	1011 9	1011 4		26 4	23 3	21 7	25 9	76	+3	3 4	+0 7	5 4	0	0	24	9	6	0	0	0	0	0	8	4	1
	1130	,,	1012 4	1012 0		30 6	24 5	21 6	25 6	59		3 5		6 9	0	0	28	6	4	1	0	0	0	0	9	0	8
	1730	,,	1009 0	1008 6		29 7	24 2	21 5	25 6	62		4 0		5 7	0	0	26	8	3	1	1	0	0	0	8	2	5
	2330	,,	1010 9	1010 5		25 3	22 7	21 5	25 5	72		1 9		4 4	0	0	17	1	0	0	0	0	0	6	9	11	1
Minicoy	0530	2	1009 5	1009 3		24 4	22 6	21 5	25 9	83	.	4 5		2 2	0	0	8	5	0	2	0	0	0	0	1	20	0
	0830	,,	1011 5	1011 3	—1 4	26 5	23 6	22 1	26 7	78	+4	5 6	+2 8	4 1	0	0	17	10	5	1	0	0	0	0	1	11	0
	1130	,,	1011 9	1011 7		29 0	24 4	22 1	26 7	67		5 5		6 9	0	0	27	8	10	1	1	0	0	1	6	1	0
	1430	.	1009 1	1008 9		29 1	24 6	22 5	27 3	68		5 8		7 7	0	0	28	16	4	2	0	1	0	0	5	0	0
	1730	,,	1008 8	1008 6		28 3	24 1	22 1	26 6	69		5 6		7 3	0	0	26	14	7	0	0	0	0	0	5	2	0
	2030	,,	1010 5	1010 3		26 4	23 3	21 7	25 9	76		3 4		6 1	0	0	23	13	7	0	0	0	0	0	2	5	1
	2330	,,	1011 2	1011 0		25 4	22 9	21 6	25 9	79	.	3 0		5 5	0	0	20	11	7	0	0	0	0	0	2	8	0
Hill Stations (excluding Kashmir)																											
Dalhousie	0830	1959	1444 6	798 7	—0 2	5 1	2 1	—2 0	5 1	62		3.5	+1 0	2 9	0	0	22	0	8	3	8	0	0	0	2	6	1
	1730	,,	1433 5	796 0		7 0	5 0	2 3	7 2	74		4 0		1 7	0	0	11	0	4	1	2	0	0	0	0	17	4
Dharmsala	0830	1211	1558 0	886 4	+1 4	11 4	7 1	1 7	6 9	53	—3	4.1	+1 1	2.5	0	0	19	3	11	2	0	1	0	2	0	9	0
	1730	,,	1558 8	886 2	..	13 5	8 2	3 0	7 5	51		5 4	.	3 8	0	0	28	2	5	0	1	0	20	0	0	0	0

Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas)		Mean wind speed in Km per hour	Wind speed (Km p h)			No of observations									
			At mean sea level or height in g p m of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point				Mean amount	Departure from normal		62 or more	20 to 61	1 to 19	Wind direction N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir (*Contd*)																											
Simla	0830	2202	1486 0	779 5	−1 0	4 8	1 2	−5 7	4 1	55	+9	3·6	0	1 3	0	0	13	2	1	0	4	5	0	0	0	15	1
	1730	,,	1484 3	779 6		6 0	2 6	−2 4	5 0	62		4 6		1 3	0	0	19	0	4	0	7	3	5	0	0	9	0
Lokpal	0830					−10 4	−12 2	−20 2	1 0	40		4 5															
Badrinath	0830								Closed during Winter Months																		
Joshimath	0830					3 5	0 8	−3 9	4 4	61		3 6		7 4	0	0	27	0	1	11	8	0	2	3	0	1	2
	1730					7 9	4 2	−0 3	6 0	59		6 1		3 2	0	0	22	1	1	3	3	1	6	4	1	6	2
Mussoorie	0830	2042				5 6	2 2	−2 9	4 8	59	−6	3 0	−0 8	3 9	0	0	26	10	3	0	1	3	2	0	7	2	0
	1730	,,				7 3	4 8	1 9	7 0	70		5 3		6 1	0	0	27	7	2	0	4	6	3	0	5	1	0
Mukteswar (Kumaun)	0830	2311	3092 7	771 2	−0 9	4 6	1 4	−4 1	4 3	61	+7	2 5	−0 6	12 3	0	3	23	1	7	7	1	0	2	5	3	2	0
	1730	,,	3085 8	770 1		5 7	3 2	−0 2	6 0	69		3 7		12 9	0	6	21	0	2	3	0	1	6	10	5	1	0
Naini Tal	0830	1953	1494 4	804 1	−0 3	5 5	2 5	−2 3	5 0	62	+15	2 5	+0 2	5 3	0	1	20	8	1	3	1	0	0	7	1	7	0
	1730	,,	1472 2	802 3		7 6	4 8	1 2	6 7	66		3 2		8 0	0	0	28	3	0	3	3	5	2	12	0	0	0
Kalimpong	0830	1209				16 8	15 2	14 1	16 1	85	+12	2 2	−0 6	3 3	0	0	28	0	0	0	2	0	1	0	25	0	0
	1730	,,				16 5	14 8	13 7	15 7	84		2 3		3 1	0	0	28	0	0	0	23	1	2	0	2	0	0
Darjeeling	0830	2128	1525 3	791 0	+2 8	7 9	5 3	2 4	7 3	70	−1	3 4	−0 4	1 6	0	0	10	4	1	0	0	1	3	0	1	18	0
	1730	,,	1502 8	788 8		8 0	5 5	2 7	7 4	71		4 1		4 4	0	1	13	0	0	0	0	0	13	1	0	14	0
Kohima	0830	1406	1564 0	866 2		13 2	11 9	10 8	12 9	88		1 3		3 6	0	0	28	4	0	0	6	0	0	0	15	0	3
	1730	,,	1543 3	863 9		15 9	14 2	12 8	14 8	82		2 9		4 2	0	0	28	6	0	0	3	0	0	7	11	0	1
Shillong	0830	1500	1521 6	852 4	+1 2	14 8	10 9	7 3	10 2	61	0	1 3	−0 8	4 8	0	1	10	1	1	0	0	1	6	1	1	17	0
	1730	,,	1500 4	849 9		14 2	11 9	10 0	12 3	77		4 1		1 2	0	0	3	0	0	0	0	1	1	1	0	25	0
Cherrapunji (R)	0830	1313																									
(R)	1730	,,																									
Abu	0830	1195	1484 3	880 0	−3 0	13 0	7 9	1 5	6 8	46	+3	0 4	−1 3	0 6	0	0	4	0	1	0	0	0	0	1	2	24	0
	1730	,,	1497 8	880 7		19 0	10 5	0 5	6 3	30		0 2		3 8	0	0	16	4	2	0	0	0	1	3	6	12	0
Anjal†	0830																										
	1730																										
Pachmarhi	0830	1075	1520 0	895 9	−0 4	16 3	9 9	2 4	7 1	42	−10	0 4	−1 3	1 7	0	0	15	2	0	5	2	0	1	2	3	13	0
	1730	,,	1505 3	893 5		21 7	12 1	1 7	6 4	28		1 1		2 6	0	0	24	2	4	1	0	1	0	7	9	4	0
Mahabaleshwar	0830	1382	1511 0	863 5	−1 0	16 3	10 4	4 2	8 4	46	−1	0 1	−0 5	10 2	0	0	28	1	9	0	7	0	4	0	7	0	0
	1730	,,	1501 0	861 9		23 1	14 5	7 3	10 2	37		0 8		10 3	0	0	28	0	5	0	4	0	3	0	16	0	0
Mercara	0830	1152	1512 5	886 9	−0 6	17 7	14 7	12 5	14 5	73	−1	1 1	−1 8	10 8	0	2	26	1	17	9	0	0	0	0	1	0	0
	1730	,,	1490 4	884 1		24 6	16 7	10 6	13 6	44	.	3 1		4 9	0	0	28	1	9	5	1	0	0	4	7	0	1
Cotacamund	0830	2249	1516 8	779 9	−0 9	10 5	7 9	6 3	9 0	76	+10	1 2	−0 6	1 4	0	0	13	2	5	1	0	3	0	2	0	15	0
	1730	,,	1486 2	778 3		16 2	13 0	10 6	12 9	70		3 3		1 8	0	0	22	0	0	19	1	2	0	0	0	6	0
Coonoor (R)	0830	1747																									
Kodaikanal	0830	2343	3146·5	771 4	−0 7	11 9	8 4	4 2	8 2	65	+13	4 7	+2 9	9 7	0	3	22	2	8	6	7	2	0	0	0	3	0
	1130	,,	3159 3	771 7		15 3	10 7	6 5	9 9	59		4 9	..	12 4	0	3	25	1	7	5	11	4	0	0	0	0	0
	1730	,,	3132 6	769 8		12 9	10 6	8 6	11 3	78		6 1	..	7 6	0	2	23	3	7	1	5	9	0	0	0	3	0
Nepal																											
Katmandu	0830	1324	1504 7	869 0		7 0	5 9	4 6	8 6	85		2 0	.	0 3	0	0	3	2	0	0	0	0	1	0	0	25	0
	1130	,,	1502 6	868 2		16 4	10 4	4 0	8 5	45		2 6		1 6	0	0	14	2	1	0	1	1	0	0	9	14	0
	1730	,,	1479 1	865 9		15·1	10 0	4 6	8 6	50		2 6	..	1 6	0	0	11	4	1	2	0	0	1	1	2	17	0
Sikkim																											
Lachen (R)	0830																										
Hydrometeorological observatories Damodar Catchment																											
Tilaiya	0830	..				19 5	13 1	6 8	9 9	44		0 7	.	6 5	0	0	24	0	0	0	2	0	6	9	7	4	0
	1730					23 9	14 2	4 4	8 4	28		0 8		5 5	0	0	25	1	0	2	0	0	0	10	12	3	0
Hazaribagh	0830	615	1013 4	943 9		18 8	13 0	8 1	10 8	50		0 5		5 6	0	0	26	2	0	3	2	1	4	10	4	2	0
	1730	,,	1009 8	941 0		20 7	14 0	8 5	11 1	47	.	1 0		4 2	0	0	25	1	0	0	1	0	2	13	8	3	0
Konar	0830	,,				19 5	13 9	8 8	11 3	51	.	0 8		4 1	0	0	26	0	0	0	5	0	1	12	8	2	0
	1730	,,				22 1	15 1	9 0	11 5	46		1·8	.	4 3	0	0	24	4	1	2	1	0	0	7	9	4	0
Bokaro	0830	242	1014 2	986 1		16 8	12 4	8 2	10 9	57	.	0 4		3 4	0	0	18	2	0	1	0	0	0	9	6	10	0
	1730	,,	1009 9	982 6		24 8	16 2	9 0	11 5	37		1 3		5 1	0	0	24	8	5	0	1	0	0	1	9	4	0
Maithon	0830					21 7	15 3	9 9	12 2	47		1 0	.	3 7 (e)	0	0	26	3	4	0	1	4	3	7	4	0	0
	1730					26·1	16 8	9 2	11 6	36	.	1 2	.	3 7 (f)	0	0	25	3	8	0	1	0	4	4	5	0	0
Ramgarh	0830	.	.			16 7	14 4	12 5	14 5	77		0 9		2 3	0	0	21	2	2	1	1	1	8	4	2	7	0
	1730					23 6	20 5	18 7	21 6	77		1 3		1 5	0	0	14	1	0	0	0	1	4	3	5	14	0

†Data for less than 15 days hence no means (R) Register not received (e) Mean of 26 days (f) Mean of 25 days.

Sub-Division and Station	Hour of observation I S T.	Station elevation in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs	Relative Humidity %		Cloud amount (Oktas)		Wind speed (Km p h)				No of observations									
			At mean sea level or height in g p m of nearest standard isobaric level	At station level	Departure from normal	Dry Bulb	Wet Bulb	Dew Point			Departure from normal	Mean Amount	Departure from normal	Mean wind speed in Km per hour	62 or more	20 to 61	1 to 19	Wind direction								Calm	Variable
																		N	NE	E	SE	S	SW	W	NW		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories Damodar Catchmant —(*Contd*)																											
Panchet Hills	0830					19 6	14 5	10 1	12 3	55		1 3		5 4	0	0	23	0	1	0	3	0	12	0	7	5	0
	1730					25 2	16 4	9 1	11 5	38		1 9		1 1	0	0	7	0	0	0	0	0	1	0	6	21	0
Durgapur	0830					20 8	15 2	10 6	12 8	52		0 9		4 6	0	0	23	1	2	2	0	1	3	1	13	5	0
	1730					26 1	17 1	9 9	12 2	37		1 5		3 9	0	0	24	2	1	2	3	2	2	2	10	4	0
Mahanadi Catchment																											
Gmabahar	0830					17 9	13 0	8 3	11 0	57																.	
Hirakud	0830	159	1014 0	995 6		21 7	16 8	13 2	15 2	59		0 5	.	2 8	0	0	20	7	0	8	0	0	1	2	1	8	1
	1130	,,	1013 3	995 2		26 8	18 3	12 5	11 5	42		0 9	.	4 4	0	0	28	10	1	0	0	1	8	2	5	0	1
	1730	,,	1009 3	991 4		28 0	18 5	11 5	13 6	36		0 8		1 3	0	0	13	1	1	0	0	3	1	1	6	15	0
Bhimkund	0830					18 9	15 4	12 7	11 7	67		1 4	.	1 6	0	0	16	1	0	0	0	1	0	1	13	12	0
	1730				.	26 0	16 2	7 7	10 5	32		2 0	.	1 1	0	0	12	0	1	2	0	1	5	1	2	16	0
Sonepur .	0830					22 8	18 7	16 0	18 2	65				5 8	0	0	22	3	0	12	3	1	0	3	0	6	0
Khijrawan .	0830					18 5	15 6	13 5	15 3	74		0		3 5	0	0	27	4	3	0	8	2	9	0	1	1	0
	1730					22 9	18 0	14 3	16 6	63		0		3 6	0	0	27	1	12	0	3	0	8	0	2	1	1
Narmada Catchment																											
Bagra Tawa	0830					16 0	11 1	4 5	9 3	46		0 3		9 9	0	0	28	1	14	3	0	3	5	2	0	0	0
	1730					28 1	15 4	2 9	7 2	21		0 6		8 3	0	0	25	0	11	2	1	0	2	8	1	3	0
Punasa (R)	0830		.						-																	.	..
(R)	1730																.										
Thikri .	0830					21 8	13 8	5 8	9 3	36	.	0 1															
Sabarmati Catchment																											
Darot .	0830					17 1	11 7	5 8	9 4	48	.			.													
	1730					28 7	16 8	5 8	9 5	21				.						.			..		.	..
Gandak Catchment																											
Jomosom	†0830	,,	.			2 7	1 2	−0 7	6 1	80	.			.	.							.	.	..	.	..
	1730	,,				4 6	2 5	0	6 2	74		..		.				..	..		.		.	.	.	.
Khudi Bazar . (R)	0830	,,	.		.						.	.	.	..							.				.	.
(R)	1730	,,									.			.	.	.					.				.	..
Tmure .	0830	,,	.		.	6 7	2·9	−2 9	5 2	52	.		..							.	.		.		.	.
	1730	,,		.		12 0	6 7	0 5	6·5	48	.		..	.							.	.	..		.	..
Pokhara .	0830	,,			.	13 3	10·1	7 0	10 2	66		2 2		1 3	0	0	9	6	1	0	0	1	0	0	1	19	0
	1130	,,			.	18 5	12 4	6 9	10 0	47		2 5		6 1	0	0	27	1	1	2	16	7	0	0	0	1	0
	1730	,,	.			18 1	12 3	6 9	10 2	50		3 7		3 3	0	0	19	1	1	2	10	4	1	0	0	9	0
Gorkha .	0830	,,				13 6	9 5	5 1	8 9	57	.	1 7		..			.				.	.		.		..
	††1130	,,	.		.						.											.		.	..	..
	1730	,,				16 2	10 7	5·1	8 9	49	.	2·3		.	.	.						..		.		.
Nuwakot	0830	,,	..			13 5	9·9	6 2	9 6	62	..					.						.			..	..
	1730	,,		.	.	11 8	11 3	3 4	8 2	38				.						.		.			.	..
Ghaghara Catchment (Trans Himalayan Region),																											
Dailekh .	0830	,,	..			11 9	10 6	9 4	11 8	85	.	.								.		.	.	.	.	..	..
	1730	,,	..	.	.	14 4	12 5	10 9	13 1	80		.		..	.						..		.		.	..	..
Ghaghara Catchment																											
Dadeldhura	0830	,,	.			7·0	4 1	0 3	6 4	65		2 4		6 1	0	1	25	0	0	9	13	2	1	1	0	2	
	1130	,,		..	.	9 5	5 6	1 1	6 7	59	..	3 4	.	6 0	0	0	28	7	3	5	4	1	1	1	6	0	0
	1730	,,				8 5	5 5	2 0	7·1	66	..	3 9	.	4 1	0	0	24	1	1	3	3	1	4	4	7	4	0
Sallyana . .	0830	,,			.	12 1	8 7	5 0	8 8	63	.		.	..						..		.			..	0
	1730	,,	.			13 2	9 6	6 0	9 5	62	.	.	.	..		.		.	.	.		.		.	..		
Batwal .	0830	,,	.			18·2	13 5	9 2	11·7	56	.					.	.			.	.	.	.		..	..	..
	1730	,,	..		.	22 3	16 3	11 5	13 8	51		.		.	.	.	.	.	.	..	.	.	.	.	.	..	..
Baghmati Catchment																											..
Katmandu* .	0830	1324	..	.	.			.	..	.	.	.	..				.	.	.	..	..	.	.	..	..	..	..	
	1130	,,	.	.	.	.				..	.	.	..	.			.		..			.	.	.	.	..	..	..
	1730	,,	..	..	.		.		.	..	.		..	.	.		..	..	.		..	.	.	..	..	..	..	..

(R) Register not received *Data included under Nepal. †Observations for 27 days. ††Data less than 15 days—Hence no means calculated.

Sub-Division and Station	Hour of observation I S T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g p m of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km per hour	Wind speed (Km p h.): 62 or more	Wind speed (Km p h.): 20 to 61	Wind speed (Km p h.): 1 to 19	No of observation: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories— *(Contd.)*																											
Kosi Catchment																											
Chautara	0830					10 7	7 2	3 6	8 1	62										.	.			.			
	1730					15 4	9 4	4 2	8 4	47									.								.
Walungchung Gola	0830					0 5	0 2	−0 5	5 9	91					.					..	.			.			.
	1730	.		.		−0 1								.		.				.	..	.	.			.	.
Teplethok . .	0830		.	.	.	12 2	7 8	2 4	7 5	53		.			.	.			.			..					.
	1730				.	13 4	8 5	2 9	7 7	50		.			.							..					
Bhojpur . .	0830					11 9	8 1	4 3	8 4	61		.						.	..			.					
	1730					11 3	8 3	5 4	9 1	68	.																
Teplejung . .	0830					9 3	6 2	2 0	7 2	62		2 8		0 6	0	0	6	0	2	1	1	0	2	0	0	22	0
	1130					13 3	8 3	3 1	7 9	52		3 4	.	5 8	0	0	24	1	0	3	1	8	6	3	2	4	0
	1730				.	11 1	7 2	3 1	7 7	59		4 1	.	9 8	0	2	22	1	2	2	3	12	3	0	1	4	0
Okhaldhunga	0830	.				10 1	6 6	2 6	7 5	62		1 4		1 0	0	0	9	0		1	4	2	1	1	0	19	0
	1130					13 3	7 6	1 1	6 9	46		1 8		4 1	0	1	18	1	1	0	0	5	2	9	1	9	0
	1730		.	.	.	10 8	6 8	2 3	7 4	57		2 3		7 8	0	3	16	0	0	0	0	0	1	16	2	9	0
Champur* .	0830	..																									
	1730			..	.								.					.			.						
Angbung†† . .	0830			..							.	.						.	.		..						
..	1730					.	.						.					..	.		.						.
Barahakshetra .	0830	146	1014 9	997 7		16 2	12 6	9 2	11 8	64	.	1 6		3 9	0	0	23	0	3	8	3	3	4	2	0	5	0
	1130	,,	1012 9	996 2		23 5	15 9	9 3	11 9	42		2 1		6 3	0	0	25	0	0	0	0	0	20	3	2	3	0
	1730	,,	1010 2	993 2		21 2	14 9	9 1	12 0	48		1 8		2 9	0	0	21	0	2	8	4	1	2	2	2	7	0
Tista catchment																											
Gangtok .	0830	1812	1501 3	819.1		8 5	6 1	3 5	7 9	72		2 7		0 3	0	0	2	0	2	0	0	0	0	0	0	26	0
	1130	,,	1490 7	818 6		13 5	8 8	4 1	8 2	55	.	3 4	.	2 9	0	0	23	0	0	0	0	10	8	5	0	5	0
	1730	,,	1471 4	816 4	.	10 3	7 6	4 9	8 7	70		5 4		3 1	0	0	15	1	3	0	4	6	0	1	0	19	0
Gezing . . .	0830	,,				11 7	8 7	5 9	9 4	68			.				.		.						.		
	1730	,,	.			11 7	9 0	6.5	.7	71	.	..	..				..	.	.	.	.	.	.		.	..	.

††Data not available. (f) Mean of 25 days. *Date not reliable.

MONTHLY MEANS OF UPPER WINDS

During the month, observations of velocity and direction of upper winds were made at 54 stations in India. Out of these, at 39 stations all the observations were taken by means of pilot balloons and at 14 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. In the case of Bangalore, the observations were taken by following radiosonde balloon by means of an optical theodolite. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data up to 9·0 km. a. m. s. l. are given under Table IV and data above 9.0 km. a. m. s. l. under Table V.

In Tables IV and V :

n—represents the number of observations ;

V—represents the mean wind speed in metres per second irrespective of direction ;

v—represents the resultant mean velocity in metres per second ;

D—represents the direction of the resultant mean wind in degrees East of North.

Means and resultant winds are given in this publication for the following heights :

Surface, 0.15 km. a. g., 0.3, 0.6, 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1, 16 2, 18.0, 21.0, 24.0, 27.0, 30.0, 33.0 and 36.0 km. a. m. s. l. Of these, the levels 1.5, 3.0, 5.4, 7.2, 9.0, 12.0, 14.1, 16.2, 18.0, 21.0, 24 0, 27.0 and 30.0 km. a. m. s. l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150, 100, 70, 50, 30, 20 and 10 mb. respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

S. No.	Station	Lat N.	Long. E.	Height of Anemometer head a.m.s.l. in metres	Data available from	Approximate times of flight (I.S.T.)			
1.	Agartala	23°53′	91°15′	17	28th November, 1951	0530		1730	2330
2.	Ahmedabad	23°04′	72°38′	61	19th May, 1928	0530*	1130	1730*	2330
3.	Allahabad/Bamhrauli	25°27′	81°44′	103	28th February, 1930.	0530*	1130	1730*	2330
4.	Ambala	30°23′	76°46′	279	18th March, 1928	0530	1130	1730	2330
5.	Anantapur	14°41′	77°37′	365	12th February, 1946	0530		1730	2330
6	Asansol	23°41′	86°59′	135	29th May, 1942	0530		1730	2330
7.	Aurangabad/Chikalthan	19°51′	75°24′	583	7th October, 1951	0530		1730	2330
8.	Bahraich	27°34′	81°36′	134	1st October, 1961	0530	1130	1730	
9.	Bangalore	12°58′	77°35′	936	19th May, 1915	0530@	1130	1730@	2330
10.	Bareilly	28°22′	79°24′	181	12th January, 1943	0530		1730	
11.	Begampet	17°27′	78°28′	543	1st September, 1929	0530		1730	2330
12.	Bhagalpur	25°14′	86°57′	61	19th May, 1950	0530		1730	
13.	Bhopal/Bairagarh	23°17′	77°21′	532	17th February, 1955	0530		1730	2330
14.	Bhubaneshwar	20°15′	85°50′	54	5th December, 1942	0530		1730	2330
15.	Bhuj/Rudramata	23°15′	69°48′	90	14th September, 1937	0530		1730	2330
16.	Bikaner	28°00′	73°18′	229	18th October, 1946	0530		1730	2330
17.	Bombay/Santa Cruz	19°07′	72°51′	27	14th May, 1933	0530*	1130	1730*	2330
18.	Calcutta/Dum Dum	22°39′	88°27′	13	14th May, 1921	0530*	1130	1730*	2330
19.	Cochin/Willingdon†	09°56′	76°14′	13	16th March, 1942	0530		1730	2330
20.	Dehra Dun	30°19′	78°02′	692	1st October, 1958	0530		1730	
21.	Dibrugarh/Mohanbari	27°29′	95°01′	112	1st June, 1948	0530	1130	1730	2330
22.	Gadag	15°25′	75°38′	650	3rd May, 1943	0530		1730	2330
23.	Gangtok	27°20′	88°37′	1764	1st May, 1963	0830		1730	
24.	Gauhati	26°05′	91°43′	55	11th March, 1955	0530*	1130	1730*	2330
25	Gaya	24°45′	84°57′	119	19th March, 1937	0530		1730	2330
26.	Gopalpur	19°16′	84°53′	24	15th February, 1946	0530		1730	2130
27.	Gorakhpur	26°45′	83°25′	83	5th January, 1943	0530		1730	
28.	Gwalior	26°14′	78°15′	208	7th May, 1938	0530	1130	1730	2330
29.	Imphal/Tulihal	24°46′	93°54′	782	29th March, 1952	0530	1130	1730	2330
30.	Jabalpur	23°10′	79°57′	402	30th July, 1928	0530		1730	2330
31.	Jagdalpur	19°05′	82°02′	562	25th March, 1948	0530		1730	2330
32.	Jaipur/Sanganer	26°49′	75°48′	403	6th June, 1953	0530		1730	2330
33.	Jamshedpur	22°49′	86°11′	144	23rd July, 1942	0530		1730	
34.	Jharsuguda	21°55′	84°05′	240	1st May, 1944	0530		1730	2330
35.	Jodhpur	26°18′	73°01′	229	15th October, 1934	0530*	1130	1730*	2330
36.	Lucknow/Amausi	26°45′	80°53′	133	20th November, 1950	0530		1730	2330
37.	Madras/Minambakkam	13°00′	80°11′	29	8th April, 1926	0530*	1130	1730*	2330
38.	Mangalore/Bajpe	12°55′	74°53′	104	4th June, 1928	0530		1730	2330
39.	Minicoy	08°18′	73°00′	15	14th April, 1941	0530	1130	1730*	2330
40.	Nagpur/Sonegoan	21°06′	79°03′	316	23rd April, 1943	0530*	1130	1730*	2330
41.	New Delhi/Safdarjung	28°35′	77°12′	227	16th November, 1929	0530*	1130	1730*	2330
42.	Poona	18°32′	73°51′	593	5th January, 1925	0530		1730	2330
43.	Port Blair	11°40′	92°43′	95	13th March, 1926	0530*	1130	1730*	2330
44.	Raipur	21°14′	81°39′	308	15th July, 1944	0530		1730	2330
45.	Raxaul	26°59′	84°51′	83	28th October, 1957	0530		1730	
46.	Siliguri/Baghdogra	26°38′	88°19′	140	7th June, 1953	0530		1730	2330
47.	Srinagar	34°05′	74°48′	1595	1st August, 1962	0530*		1730*	
48.	Tiruchchirappalli	10°46′	78°43′	96	22nd June, 1936	0530		1730	2330
49.	Trivandrum	08°29′	76°57′	73	8th December, 1928	0530*	1130	1730*	2330
50.	Udaipur	24°35′	73°42′	587	24th June, 1947	0530		1730	2330
51.	Vengurla	15°52′	73°38′	8	20th November, 1941	0530		1730	2330
52.	Veraval	20°54′	70°22′	17	13th October, 1941	0530		1730	2330
53.	Vijaywada/Gannavaram	16°32′	80°48′	32	1st April, 1957	0530		1730	2330
54.	Vishakhapatnam	17°43′	83°14′	10	24th September, 1928	0530*	1130	1730*	2330

*Radio wind ascents.

@Radiosonde ascents followed by optical theodolite.

†Naval Meteorological office.

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

February, 1965 (Magha 12—Phalguna 9, 1886 Saka)

Station	AGARTALA												AHMEDABAD											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	28	0 7	0·3	170	28	1 4	1 0	280	28	1·5	3·1	257	28	1 7	0·6	346	28	3 3	1·5	072	28	2 9	1 4	332
0·15 a.g. .	25	3 2	0 7	040	28	3 3	1·9	289	28	4 8	1 5	275	28	8 5	3·6	333	28	4·1	1·5	071	28	4·6	1 5	326
0·3 a.m.s.l.	25	3·6	1 2	346	28	3 8	2 2	285	28	4 9	2 5	279	28	8 2	3 2	028	28	4 5	2·2	079	28	4·7	1 6	317
0·6 ,, .	25	4·2	1·8	228	28	3·8	2·4	174	28	4·3	2 8	280	28	7·9	2 6	023	28	4·9	1 2	067	28	4 6	1.3	319
0·9 ,, .	25	4·7	2 7	313	28	4 0	2·8	173	27	4 3	3·3	281	28	6 3	0 9	345	28	5 2	0 4	036	28	5 4	1·7	313
1·5 ,, .	23	6 3	4·3	304	28	5·3	4 2	280	27	5·3	4·7	275	28	5·8	1 7	268	28	5 4	2 2	280	28	4 6	1·5	287
2·1 ,, .	23	8·5	7 3	288	27	7·1	5 8	282	26	7·6	7·1	281	28	6·3	4 0	258	27	6·7	4 4	256	28	5 6	3 1	267
3 0 ,,	22	11·3	9·8	286	26	10·9	10·4	279	24	10 0	9·6	277	28	9 8	8·6	267	27	9 0	7 3	260	28	9·5	8·1	269
3·6 ,, .	19	13 3	11·1	281	24	13 0	12 6	280	4	11 5	11·1	270	28	12 5	11 2	274	26	11 1	9 9	273	28	11·7	11 0	276
4·5 ,, .	17	16 5	16 1	270	22	17 3	16 9	277	1	12 0	12·0	255	28	16·7	15 7	279	26	15·1	14 5	277	28	15 8	15 2	283
5·4 ,, .	8	16·6	16·4	264	22	21 2	20 7	276					28	20 5	19 3	281	26	18 2	17 5	281	28	20 0	19·4	283
6·0 ,, .	5	19 4	19 2	265	18	24·0	23·5	273					28	23 4	22 5	283	25	21 6	20 6	281	28	24 5	23 9	283
7·2 ,, .					7	26 3	25·5	269					25	29 6	28 8	282	16	28 4	27 7	283	26	32 1	31·1	286
9 0 ,, .					3	33 7	33 6	263					20	41·8	39 0	282	9	38 6	37 4	280	18	40·4	38·3	284

Station	AHMEDABAD				ALLAHABAD/BAMHRAULI												AMBALA			
Time in I. S. T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	28	1·6	0 4	017	28	0·4	0 3	277	28	1·5	0 6	269	28	1·8	1·1	297	28	0 5	0 2	347	28	2·1	0 5	345
0·15 a.g. .	28	6 6	3·1	345	28	6·6	3 1	325	28	3·7	1·9	278	28	6·4	4·5	317	28	6·6	3·6	338	28	7·6	4·7	349
0·3 a.m.s.l.	28	6 9	3 1	340	28	6·6	3·1	325	28	3 8	2 4	278	28	6·4	4 5	317	28	6·7	4·2	328	28	4 1	2·1	347
0·6 ,, .	28	6 8	3 1	340	28	7 2	4 0	312	28	4 8	2 8	273	28	6·4	4·2	310	28	6·6	4·1	325	28	7·9	3·8	345
0·9 ,, .	28	5 9	2·1	342	28	6·7	4 1	302	28	5 8	4·0	280	28	6·4	4·4	297	28	6·0	4·1	304	28	6·9	2·9	338
1·5 ,, .	28	5 9	1·8	260	28	8·1	6 6	287	28	7·7	5 4	292	28	7·1	6·1	290	28	6·4	5 0	281	28	6 3	1·5	314
2·1 ,,	28	7 2	3·6	248	28	10 6	9 9	280	28	8 6	6 7	283	28	8·6	7·1	270	28	8·5	7·5	274	25	7·1	3·3	307
3·0 ,, .	27	8·3	5·8	260	28	13·3	11 5	278	27	10·5	9·2	281	28	11·0	9·7	272	22	11·0	9·6	267	21	7·2	5·8	291
3·6 ,, .	15	8·7	7·1	275	28	15 2	13 7	275	27	12·6	11·0	275	28	14·5	13 3	271	2	12·5	11·7	309	18	7 9	6·7	294
4·5 ,, .	2	11.0	10·1	288	27	16 6	15 2	267	24	15·3	14·3	273	28	16·3	15·2	273					15	11 1	9 5	289
5·4 ,, .					27	21 6	21 1	275	24	19·5	17·5	272	28	20·3	19·2	273					14	17 1	15 5	281
6·0 ,, .					26	23·3	22·7	275	24	22·7	21·0	270	28	23·7	22·4	271					13	19·5	17·7	284
7·2 ,, .					26	31 0	29 3	276	21	28·9	26·9	271	28	32·0	30·2	270					7	26 0	25·3	280
9·0 ,, .					23	44 6	41 9	269	12	36·8	35·2	274	26	45·4	43·4	271					1	26·0	26·0	290

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

February, 1965 (Magha 12—Phalguna 9, 1886 Saka)

Station	AMBALA												ANANTAPUR											
Time in I. S. T	1130				1730				2330				0530				1730				2330			
Ht in Km	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	28	2 7	0 4	309	28	3 9	1 4	289	28	3·4	1·7	332	28	1 3	0 4	123	28	3·3	2·7	080	28	4 1	3·6	102
0·15 a.g. .	28	5 9	1·4	360	28	6 5	2 4	303	27	10 0	6 9	332	28	5 4	2 3	129	28	5·7	4 6	083	27	8 7	7·8	108
0·3 a.m.s.l	28	3·3	0 5	347	28	4·6	1·9	296	27	5 2	3 4	328												
0·6 „ .	28	7·7	2·1	359	28	7·4	2 6	307	27	9·5	6·4	331	28	6 1	2 8	137	28	5 1	3·8	085	27	9·1	8 1	109
0 9 „ .	28	7·6	1 3	003	28	8 1	2 5	327	27	8·6	5·6	329	28	7 5	4 1	123	28	4·7	3·6	092	28	9·0	6 6	112
1·5 „ .	27	7 1	3 9	026	28	7 1	1 7	326	27	6 4	3 1	311	28	7 0	4 5	101	28	4 7	3·3	098	28	5·4	3·9	102
2·1 „ .	24	7 1	1 7	297	28	7 5	2 2	277	25	6·3	3·2	285	28	5·1	3 3	086	28	4·6	2·7	095	28	4 2	1·7	078
3·0 „ .	20	6 3	4·4	299	23	7·4	4 3	284	22	6 5	4·3	262	28	4 3	1 0	025	26	4·7	1·1	126	27	4·7	1·1	003
3 6 „ .	20	7 9	5 9	296	21	7 3	5 3	288	9	5·8	3 6	266	25	4·3	1·3	333	22	4·0	0·7	283	19	4·7	1·6	010
4·5 „ .	14	11·1	9 9	292	18	9·7	7·8	282	1	5 0	5 0	280	25	5 8	3 1	307	17	6·1	3 7	306	3	5 3	5·3	020
5·4 „	13	16 7	14 3	286	13	13 9	12·2	279					23	7·9	5 2	296	14	7·4	4·9	299	1	3.0	3·0	035
6·0 „ .	12	19·7	18 5	282	12	16 5	14 8	277					23	9 2	6 4	296	14	7·9	5·0	299	1	3·0	3·0	120
7·2 „ .	8	22 9	22 0	277	5	24 2	22 4	274					19	11 4	8 7	296	11	9·2	7·2	308				
9·0 „ .													9	14 6	12·8	300	5	13·4	12·3	322				

Station	ASANSOL												AURANGABAD/CHIKALTHAN											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	28	0 6	0 5	291	28	0·9	0·7	325	28	0 6	0·2	321	28	1·1	0·3	282	28	3·4	1 7	249	28	2·0	1·6	301
0·15 a.g. . .	28	4·7	2·3	320	28	3·3	2·5	319	28	5 6	2·7	002	28	6 3	2 5	044	28	4·7	2·0	266	28	7·2	3·9	009
0·3 a.m.s.l. .	28	4 7	2 3	323	28	3·7	2·7	317	28	5·7	2.9	355												
0·6 „ .	28	5·7	3·1	331	28	3·7	2·9	295	28	5·6	3·2	322												
0·9 „ .	28	5.1	3·9	315	27	4·0	3·2	291	28	5 0	3·7	300	28	7·9	2·2	063	28	4·9	2·3	274	28	8·9	4·8	005
1·5 „ .	27	6·3	5·6	288	27	5·1	4·6	284	28	5 6	5·0	273	28	7·3	0·1	342	28	5·3	3·1	277	28	6·9	2·4	350
2·1 „ .	25	7·8	6·8	287	27	8 0	7·3	288	27	8 0	7·4	277	27	5·4	2·2	251	28	6·0	3 7	269	28	5·1	1·7	242
3·0 „ .	18	10·0	9·5	283	27	11·7	11·2	290	25	12·0	11·4	280	27	6 5	4·0	234	26	7·2	4·9	269	26	6·9	4·1	224
3·6 „ .	7	11·3	10 6	286	27	13 6	12·8	288	12	10·8	10·5	280	17	8·6	6·9	253	23	7·7	5·8	275	17	8·6	6.9	247
4·5 „ .	2	14·0	14.0	292	24	16·2	15·5	282	5	14·0	12·8	276					21	11·7	10·2	281	1	4·0	4·0	277
5·4 „ .					20	21·5	21·0	276	2	14·5	14·1	295					16	14·0	12·2	292				
6·0 „ .					20	25·3	24·3	273									12	15·8	14·7	295				
7·2 „ .					6	29·2	28·2	269									4	17·5	17·1	287				
9·0 „ .					3	28·0	27·9	251																

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

February, 1965 (Magha 12—Phalguna 9, 1886 Saka)

Station	BAHRAICH												BANGALORE											
Time in I. S. T.	0530				1130				1730				0530@				1130				1730@			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	28	1 0	0 3	303	28	1 0	0 3	209	28	1·2	1.0	266	28	3 1	2 3	107	28	3 2	2 3	112	28	2 6	2 2	093
0·15 a.g. . .	28	6·2	2 6	327	28	3 4	0 5	218	28	3·7	2·0	262	28	6·9	4·6	111	28	5 2	3 7	107	28	5 4	4 5	092
0·3 a.m s.l. .	28	6 3	3 1	314	28	3 6	0 4	226	28	3 7	2·0	276												
0·6 „ .	28	6 4	2 1	329	28	5 5	1 0	228	28	4 9	2 9	282												
0·9 „ .	28	6·1	2·6	313	28	5·3	1·3	276	28	5 8	3·9	288												
1·5 „ .	28	7 2	4 1	293	28	5 6	2 8	290	28	6·6	5 1	293	28	7 7	6 1	109	28	5 1	4 2	105	28	5 3	4 4	096
2·1 „ .	28	9 5	7·2	286	28	6·9	5·5	288	28	7 6	5 6	273	28	5 6	4 3	092	28	4 6	3 6	094	28	4 7	3 7	095
3·0 „ .	28	12·0	10 3	286	27	10·1	9 0	286	27	10·1	8 6	272	28	5 0	2 1	127	24	5 1	3 1	075	27	3·8	1 7	076
3·6 „ .	22	12·0	11·4	289	27	12·3	11·3	280	27	11 3	9 8	272	28	4 7	1·0	012	23	4 3	1 5	076	27	4·3	0 5	350
4·5 „ .	16	13·3	12·6	285	23	14 7	14 0	287	22	14 0	12 3	272	27	5 0	1 5	305	23	4 7	1 2	047	26	5 0	2 4	333
5·4 „ .	12	16·8	16·3	284	22	17 7	16 8	279	18	17 8	14 8	271	26	5 7	3 2	309	23	5 3	2·0	332	25	6 0	3 5	321
6·0 „ .	11	19 8	19·4	278	19	21.2	20 5	280	16	20·1	19·3	271	25	6·8	3 8	310	22	5 3	2 5	330	25	6 7	4·3	312
7·2 „ .	4	23.5	23.5	270	9	24 3	23.6	274	10	26 9	24 4	275	24	7 9	5 1	305	21	7 8	4 4	317	25	7 9	5 5	318
9·0 „ .					1	55 0	55 0	274					20	10 9	7 2	296	19	10 2	6 2	300	24	9 3	6 6	300

Station	BANGALORE				BAREILLY								BEGAMPET											
Time in I. S. T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	28	3.6	3·1	111	28	1 4	0·5	325	28	1·3	0 8	295	28	2 0	0 4	138	28	2 1	0 9	120	28	2·4	1 1	098
0·15 a.g. . .	28	9.5	8·5	112	28	6·6	2·9	335	27	4 3	2·5	298	27	6·3	2·2	158	28	3·9	1·6	122	28	6 5	3·4	117
0·3 a.m.s.l. .					28	6.4	2·8	335	27	4·5	3·1	291												
0·6 „ .					28	8 0	3 0	324	27	5·7	2·8	291	27	4.8	1.8	151	28	3 3	1 6	122	28	4 9	2 7	111
0·9 „ .					28	8·0	3·0	312	28	5 9	2 9	289	27	7 0	3·3	146	28	3 9	1·6	132	28	6·7	3 7	130
1·5 „ .	28	8·8	7·9	106	28	7·8	4·1	294	27	6 0	3 9	282	27	6·2	1·9	138	28	4·4	1·2	148	28	5·3	2 4	144
2·1 „ .	28	4 9	2·6	076	28	8·4	6·2	290	27	7·1	5·0	275	27	5·3	0 9	316	28	4·3	0·4	234	28	4 6	0 8	257
3·0 „ .	27	5·3	1·9	040	24	9·7	8·4	286	27	8·4	6 5	275	26	5·7	2·7	310	28	4 7	2·3	286	28	5·9	3·9	291
3·6 „ .	25	5·4	1·9	064	24	10·9	9·9	288	27	9·9	8·0	280	26	5·5	2·9	298	28	6 2	4 3	275	16	6 4	4·6	293
4·5 „ .	21	4·8	0·4	353	21	14.7	13·5	277	21	12·7	11 6	284	26	7·6	6·2	290	25	9·4	7 8	289				
5·4 „ .	12	5·4	2·9	313	11	17·6	16·9	252	18	16·8	16·2	276	25	9·9	8 2	282	21	11 3	9 5	278				
6·0 „ .	10	4.8	3.0	288	6	22·2	21 7	265	15	19 1	18 6	275	25	11 3	9·4	282	19	12 9	11·1	285				
7·2 „ .	6	8.5	5.9	336					4	28 7	27·8	277	21	14·4	12·0	284	17	16·4	14·8	285				
9·0 „ .	1	18.0	18.0	345									13	16.5	14.8	268	6	14·5	11·7	288				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 0 Km. above mean sea level

February, 1965 (Magha 12—Phalguna 9, 1886 Saka)

Station	BHAGALPUR								BHOPAL/BAIRAGARH												BHUBANESHWAR			
Time in I. S.T.	0530				1730				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1·3	0 9	242	28	2·1	1·9	277	28	2·5	1·3	084	28	2·7	1 3	305	28	2 2	1·1	020	28	2·0	0·4	303
0·15 a.g.	26	4 8	3 0	267	28	4 7	4 4	287	28	7 7	3·4	076	28	4 0	1·9	309	28	7·5	2·8	029	28	4 0	1 9	235
0·3 a.m.s.l.	26	4·8	2 9	292	28	5 1	4 5	287													28	4 5	3·1	215
0·6 ,,	26	5·2	4 1	305	28	5 6	5 3	288	28	6 7	2 7	081	28	3 6	1·7	307	28	6 7	2·6	036	28	4 2	1·7	250
0·9 ,,	26	6 2	5 6	299	28	6 1	5 7	284	28	8 2	3 0	073	28	4 6	2 0	304	28	7 5	2 7	359	28	3 8	1·7	302
1·5 ,,	25	7 7	7·3	288	28	8 1	7·7	280	28	5·5	2 8	282	28	5 2	2 4	278	28	5 6	2 3	275	27	4 9	3 5	312
2·1 ,,	20	9 1	8·7	287	22	9·8	9·1	280	28	7 0	5 7	271	28	6 6	4 7	259	28	6·7	5 0	253	27	6·3	4 9	306
3.0 ,,	6	7 1	6 8	302	13	11 7	11·4	288	28	11 0	9 5	255	28	10 5	9 1	259	28	10 9	9 1	254	27	7.7	7 0	288
3·6 ,,	2	7 0	6·9	285	10	14·3	14 0	295	28	12 6	10 9	260	26	12 9	11·8	268	19	11 2	9 6	274	26	9 2	8 1	280
4·5 ,,	1	10·0	9 9	290	1	7 0	7·0	265	28	15 2	13 7	266	25	15 6	14·6	273					25	13 1	11 7	279
5·4 ,,									29	17 3	16 2	273	23	19·1	18·4	276					16	15 2	14 3	269
6·0 ,,									20	20 5	19·5	275	21	22 2	21 3	278					12	17·0	15 2	273
7·2 ,,									12	24 5	23 5	282	10	26·7	26·0	284					3	19 0	18·7	180
9·0 ,,									2	27·0	27 0	290												

Station	BHUBANESHWAR								BHUJ/RUDRAMATA												BIKANER			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	3·9	1 8	159	28	2 7	1·8	181	28	0 6	0·3	304	28	4 3	1 6	320	28	1 6	0 9	282	28	6·3	0 1	269
0·15 a.g.	28	5·0	2·5	155	27	5·9	4 8	185	28	5 1	2 9	343	28	4·9	2 1	295	28	6·1	2 9	289	28	7.0	4 0	168
0·3 a.m s.l.	28	4 8	2·0	163	27	6 1	4·8	190	28	6·4	3·0	347	28	5·0	2 1	295	28	6·8	3·5	310	28	5·5	3 7	165
0·6 ,,	28	3·8	0·7	189	27	5·1	3·5	197	28	7 2	3 4	346	28	4 5	1 9	294	28	6·4	3 3	325	28	6·3	2 1	077
0·9 ,,	28	3·3	0·8	292	25	4·1	1·6	249	28	6·4	2 9	344	28	4 2	1 8	290	28	5 8	2·6	322	27	4 2	1 3	001
1·5 ,,	27	4·4	2·9	303	25	4 8	3 4	316	28	5 6	2·3	310	28	4 1	1 9	289	28	5·9	1 0	313	26	6·0	4 0	317
2·1 ,,	26	6·8	5·5	300	25	6·5	5·4	312	28	6 6	3·5	280	28	5 5	3 6	287	28	7 1	3·2	293	26	6·5	5 6	303
3·0 ,,	21	10·1	8 8	295	23	8·0	6·9	292	28	9 1	6 5	282	28	9·4	7 6	280	28	8·5	6·2	281	24	8·5	5·5	300
3·6 ,,	20	12·3	10 0	283	1	7·0	7·0	335	27	11 8	9 8	279	28	12·3	10 2	280	8	9 9	8 3	284	21	10 0	8·4	281
4·5 ,,	12	14·7	13·4	270					25	14 2	13 0	285	28	14·8	14·1	279					16	12·6	11 6	354
5·4 ,,	12	15 4	14·8	271					23	16·6	16·0	284	27	16·8	16 4	284					13	16·5	14 2	359
6 0 ,,	9	19·3	18·4	270					22	19.1	18·5	285	27	19·7	19 1	286					11	18·4	17·5	354
7.2 ,,	4	22·0	20·4	270					14	22.4	20·7	291	11	23 1	22 7	282					2	23·5	22·4	340
9.0 ,,									3	30·3	26 5	248	1	36 0	36 0	275								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 0 Km. above mean sea level

February, 1965 (Magha 12—Phalguna 9, 1886 Saka)

Station	BIKANER								BOMBAY/SANTACRUZ															
Time in I S.T.	1730				2330				0530*				1130				1730*-				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	28	0 7	0 5	263	28	1 1	0 5	016	28	0 4	0 4	065	28	1 7	0 8	009	28	5 5	5 2	307	28	1 9	1·7	354
0 15 a g.	27	3 7	1·3	317	28	7·4	4 2	005	28	3·9	2 9	005	28	3·3	1 5	019	28	6·7	6 3	306	28	7 3	5 3	343
0·3 a m s.l.	27	3·3	1 2	307	28	6·1	3 3	052	28	4·0	2 5	008	28	3 6	1·2	066	28	6 4	6 0	304	28	6·0	5·5	343
0 6 „ .	27	4 0	2·3	298	28	6 5	2 6	033	28	4·1	2 3	003	28	4 3	1·6	046	28	5 1	3·7	292	28	5 6	4.8	343
0·9 „	27	3 9	2·2	297	27	4·7	1 5	010	28	4·4	1 9	357	27	4 9	1·7	060	28	4 8	2 8	304	28	4 9	3·5	344
1 5 „ .	27	4 0	1 8	278	27	4·4	2·8	244	28	5·4	1 4	274	26	6 3	1 9	240	28	5 1	1 1	265	28	4 6	1·5	288
2·1 „ .	27	4·7	3 3	294	27	6·4	5 1	257	28	6 4	2 3	203	26	6.8	3 7	211	28	6 2	2·6	208	28	6·0	1·5	210
3·0 „ .	24	6 9	5·2	272	27	8 1	7·0	264	28	6 6	3 0	226	25	6 2	3 3	237	28	6 8	3 1	252	28	6·7	2·3	223
3·6 „ .	20	8 9	8 3	276	1	4 0	4 0	280	28	7 5	5 8	270	24	7 2	5·6	284	28	6·8	4 8	281	24	6 4	4 9	272
4·5 „ .	20	13 3	13 2	277					28	10·3	9 5	278	23	9 2	8 2	287	28	9 4	8 5	285	24	8·8	8 2	289
5·1 „ .	17	17.2	16·9	284					28	13 4	12·5	278	23	13·3	12·4	286	28	13 1	12·2	265	13	10·3	9.7	288
6·0 „ .	13	21·2	20 3	282					28	15 7	15·4	279	23	15·7	14 6	283	28	15·9	15·1	278	10	12 2	11.5	299
7·2 „ .	5	2 6	2 5	291					28	21 0	19 7	281	23	20·3	18 5	294	28	20 6	19 3	281	3	13·7	13 2	315
9·0 „ .									28	27 9	26 5	279	20	29 3	27 0	286	28	26 8	25 4	278				

Station	CALCUTTA/DUM DUM												COCHIN/WILLINGDON †							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	28	0 4	0·3	214	28	1·4	0 5	290	28	0 6	0 2	195	28	0·6	0 4	176	28	1 2	1·1	064	28	4·3	3 6	280
0·15 a.g. . .	28	4 6	1·0	278	28	3 1	1 5	314	23	4 1	2·1	295	28	4 6	1 6	215	28	3 7	3 0	062	28	6 9	6·6	283
0·3 a.m.s.l. .	28	4·7	1·0	280	28	3 1	1·6	299	28	4 1	2·2	292	28	4 3	1 2	256	28	3 2	1 9	060	28	6 9	6·6	290
0·6 „ .	28	4·5	1·2	301	28	3·3	2 0	292	28	4 4	3·0	294	28	4·1	2·1	287	28	3 5	1 6	089	28	5 1	4·2	317
0·9 „ .	28	4·4	2 4	301	28	4·1	2·8	298	28	4 5	3·4	292	28	4·6	3 5	295	28	3 9	1 8	098	28	4 1	2 9	018
1·5 „ .	28	6·2	5·4	307	28	6·6	5·4	294	28	5·3	4 7	288	28	7·0	6 6	294	28	4·9	3 4	077	28	6 3	5·5	061
2·1 „ .	28	7·9	7 2	298	26	7·8	7 1	290	28	7·8	7·0	296	28	8·9	8·3	284	28	6·1	4 1	070	28	8·4	7·0	080
3·0 „ .	28	10·1	9 6	286	24	11·0	10·5	284	28	11 3	10 8	285	13	8·4	8·0	283	28	4 4	0 7	131	25	4·9	3·0	081
3·6 „ .	28	11 3	10 8	281	22	13 1	12 8	276	28	13·3	12·6	285	1	11·0	11·0	255	22	5 6	1 5	121	24	6·0	2·5	051
4 5 „ .	28	15 0	14·4	273	19	15·6	15 3	277	27	17 7	17·0	277					10	6.0	2 4	059	21	6 3	3·5	056
5·4 „ .	28	19 6	18·8	264	17	18 3	17 7	272	26	20 9	19·8	272					4	9·3	2 9	325	13	6·5	4.9	036
6 0 „ .	28	21 3	20·6	263	15	21·7	21 0	269	26	23 6	22 4	270									10	6·9	3·0	041
7·2 „ .	28	28·1	26·8	267	13	26 7	26 1	270	27	31·0	29 7	269									4	8·0	2.4	341
9·0 „ .	28	36·7	34·6	267	6	32 3	32·1	266	27	37·4	35·5	267									2	11·0	10·9	352

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 0 Km above mean sea level

February, 1965 (Magha 12—Phalguna 9, 1886 Saka)

Station	COCHIN/ WILLINGDON †				DEHRA DUN								DIBRUGARH/MOHANBARI											
Time in I. S. T.	2330				0530				1730				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	28	0·4	0 0	000	28	0·3	0 3	003	28	1 4	0·4	261	28	1·1	1 0	054	28	0 6	0·5	041	28	0·6	0·6	035
0·15 a.g. .	28	2·9	1·1	310	24	1·4	0·7	041	25	3 2	1 4	279	25	5·4	5 0	053	25	2 2	1, 9	048	26	2 6	1 9	051
0·3 a.m.s.l. .	28	3 4	1·4	310									25	5,6	5 3	051	25	2·5	2·2	043	26	4·0	2,5	053
0·6 „ .	28	4·1	0 8	060									25	4 9	4·5	049	25	2·6	2·1	044	25	3 2	1 8	062
0·9 „ .	28	4 3	2 3	086	24	1 4	0 8	032	25	3 4	1 4	248	24	3·5	3 0	054	25	2·3	0 9	066	25	1 6	0 8	100
1·5 „ .	28	5 9	4 4	083	23	2 1	0·4	354	25	3·3	0·9	169	24	2 3	1·2	178	25	3 1	1·8	209	24	4 0	1 9	211
2·1 „ .	28	5·7	4 7	066	21	3 6	1 2	336	25	4·4	0·8	187	23	4 0	2 6	233	23	4 4	3 3	227	24	5 7	5 1	212
3·0 „ .	21	5 1	2·7	055	20	5 9	2 6	298	22	5·6	2·9	277	21	5·1	3 8	239	20	5·1	4 5	217	22	7 1	6·1	214
3·6 „ .	11	6 3	1 3	104	16	6 3	3 8	298	17	7·0	4 9	300	17	5 0	3 5	258	19	7 8	5·6	237	19	7·0	5·1	232
4·5 „ .	2	1 5	0 6	150	2	8 0	5 1	214	16	10 6	9 7	288	13	15·2	13·3	262	15	10·4	8·1	253	15	12 0	10·9	253
5·4 „ .									14	14 0	13 4	278	9	15·9	14 2	267	14	17·0	15 7	263	12	16·0	15·6	260
6·0 „ .									12	16 7	16·7	278	3	14 7	13 3	259	12	19·5	18·3	264	11	20·6	19 9	263
7·2 „ .									10	24 5	24·2	284					11	25 5	24·9	263	6	22 6	22 2	274
9·0 „ .																	10	34 6	33·9	266	1	35 0	34 7	246

Station	DIBRUGARH/ MOHANBARI				GADAG												GANGTOK							
Time in I. S. T.	2330				0530				1730				2230				0830				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	28	1 3	0 0	042	28	3 5	1·4	113	28	3 3	1 6	100	28	4 9	1 0	173	28	0·1	0 1	339	28	2 0	0 6	153
0·15 a.g. .	23	3·9	3 5	038	28	6 6	2 9	108	28	4 2	2 1	090	28	8 8	0 9	129	25	1 4	0·4	121	17	3·8	3·1	184
0·3 a.m.s.l. .	23	3 8	3·3	043																				
0·6 „ .	23	3·0	2 6	063																				
0·9 „ .	23	2 2	1 7	085	28	8 3	4 1	107	28	4 4	2 0	082	28	8·5	1 3,	093								
1·5 „ .	22	2·1	1 0	182	28	7 7	3 9	092	28	4 4	1 8	083	28	6 4	3 5	097								
2·1 „ .	22	5·0	3·9	239	28	5 2	3 1	086	28	4 3,	1 6	091	28	5 0	4 1	090	25	1·4	0 7	166	17	3·6	3 3	167
3·0 „ .	20	5·1	5·1	239	28	4 5	0 7	073	28	4·5	1 1	032	27	3·9	1 7,	062	25	3 0	2 4	163	12	3 7	2 4	174
3·6 „ .	16	6·0	5·4	248	28	4 6	1 9	281	27	5·3	2 1	329	25	5 0	1 8	355	25	4·7	2 9	237	10	4·0	3 5	232
4·5 „ .					28	7 0	4 5	307	27	6·6	4 0	305	20	7·1	4·1	294	19	11·7	9 9	258	8	7 0	6 7	260
5·4 „ .					28	8·4	6 7	293	25	7·9	6 0	292	14	7 8	6 3	268	18	16 4	14·8	260	7	18·1	17 7	258
6·0 „ .					28	9·7	7·7	294	24	10·1	8 5	309	9	9·9	8 9	274	15	21·1	19 4	256	4	22 0	21 7	267
7·2 „ .					28	13 9	11 5	305	25	13·1	11·1	297	6	12·5	11.9	295	9	22·2	20·8	262	2	22.5	22 0	273
9·0 „ .					27	17 0	14·7	294	21	15·4	13 7	286					5	33·4	33·1	275	1	54·0	54·0	280

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 0 Km above mean sea level

February, 1965 (Magha 12—Phalguna 9, 1886 Saka)

Station	GAUHATI																GAYA							
Time in I S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	28	0·4	0 3	059	28	1·5	1 3	017	28	0 5	0 3	037	28	1 1	0 6	190	28	1 1	0 6	204	28	2 6	2·2	328
0·15 a. g. .	28	2 3	1 1	093	27	3 0	2 4	030	28	3·1	1 4	013	28	2·7	1 5	175	28	4·6	2 1	240	28	4·9	4·1	320
0·3 a m s.l. .	28	2·6	0 7	074	27	3.1	2 4	043	28	3·2	1 3	002	28	3·0	0·9	198	28	4.7	2 0	257	28	5 0	4·3	318
0·6 „ .	28	3 3	0 2	021	27	3.1	1·4	070	28	2·9	0·7	334	28	3 5	0·5	217	28	5·8	3·4	293	28	5·3	4·4	309
0·9 „	28	4 0	0 4	294	26	4 0	0 2	222	28	3 4	1 9	264	27	4·0	1 9	258	28	5 8	3 9	289	28	5 1	4·4	298
1·5 „ .	28	4 7	2 4	262	26	5 4	2 5	236	28	5·1	4 8	256	27	5·6	4·9	263	28	6 4	6·0	285	28	7·0	6·4	281
2·1 „ .	28	7·9	6 0	267	25	7 1	5·1	250	28	7 7	7·4	258	26	7 2	6.3	260	27	8 8	8·3	283	28	8 9	8·4	277
3·0 „ .	28	11·4	10·3	279	25	10·7	9·8	267	27	11 9	11 1	268	24	9·9	8·6	267	27	12·4	11·8	286	27	12 5	11·6	284
3·6 „ .	28	13·6	12·8	281	24	13 0	11 1	272	27	13·5	13·0	274	6	8 8	8 1	279	25	13·8	12 5	284	25	13·8	13·2	287
4·5 „ .	28	18 7	17 9	278	22	16·9	16·1	266	26	17·7	17 3	275					17	15·3	14 8	282	22	17·9	17·3	284
5·4 „ .	27	22 2	21·3	276	22	20 9	20 6	265	25	22·3	21 3	273					9	19 1	18·5	275	18	18·8	18.2	283
6·0 „ .	26	26.5	25 6	274	21	24·3	24 0	265	24	25 3	24 3	270					7	20.1	20 0	272	12	19 5	18·6	283
7·2 „ .	25	31 8	29 4	279	17	31·0	30·7	262	23	31·7	30.3	269					2	32 0	31 7	277	7	26·7	25·1	269
9·0 „ .	18	43 1	38.7	273	14	45 0	44·3	261	21	40 9	39 4	271									1	37 0	37 0	280

Station	GAYA				GOPALPUR												GORAKHPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	28	1 5	0·5	258	28	0 9	0 6	292	28	3 3	2·7	181	28	2 1	1 9	206	28	0 7	0 3	248	28	1 0	0 8	266
0·15 a g.	28	6 1	2·9	331	27	3 9	1 8	260	28	6 9	5·4	161	28	5·3	4 6	193	28	6 1	1 9	292	28	4 2	2 9	272
0·3 a.m.s.l. .	28	6 1	3 5	327	27	4 0	1·7	220	28	6 8	4 9	160	28	5 0	4 3	193	28	6 3	2·9	290	28	4·7	3 8	272
0·6 „ .	28	6·4	4·5	313	27	3·5	1 6	220	28	5 1	2 7	165	28	4·4	3 2	193	28	6 5	3 5	289	28	5 4	4 0	274
0·9 „ .	28	6·5	5 1	293	26	3·3	1 1	270	28	3 8	0 8	179	28	4 0	1 3	199	28	6·3	3·2	285	28	5 9	4 5	274
1·5 „ .	28	7 7	7 0	272	25	5 3	3 0	325	28	5 1	3 2	318	27	4 3	1 6	322	28	7 4	5 6	290	28	6·8	5·9	283
2 1 „	26	8·7	8 0	275	25	6.2	4 0	314	28	6 4	5 4	310	25	4·7	3·8	305	28	9 4	7 7	286	28	8 4	7·9	290
3·0 „	19	10·7	9·9	276	23	7 5	6 0	285	28	7 8	7 0	286	14	6·3	4 7	280	23	11 6	10 0	285	26	11 7	11 0	286
3 6 „					22	8·6	7·0	275	27	8 9	8 6	280	1	4·0	4 0	295	18	12 9	11 6	280	22	13 1	12·2	282
4·5 „					19	9·2	8 2	288	22	11 5	10.7	273					8	12 4	11 9	284	15	15.3	14 5	278
5·4 „					14	13 2	10.9	280	20	14.8	13 7	269					4	13 3	12·9	274	10	18·0	17 3	275
6·0 „ .					11	14 1	12·5	280	17	16 3	15 8	278					3	13 7	13·1	280	3	19 0	19·0	271
7 2 „ .					1	12.0	12.0	300	4	19·5	19 3	266									2	24 5	24 5	274
9·0 „ .																								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

February, 1965 (Magha 12—Phalguna 9, 1886 Saka)

Station	GWALIOR																IMPHAL/TULIHAL							
Time in I S.T.	0530				1130				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	28	0.6	0 1	066	28	1 8	0 4	300	28	2 1	1 3	329	28	0 4	0 1	067	28	0·3	0 1	097	28	1 0	0 4	254
0·15 a. g.	28	5 4	1 7	010	28	2 9	0 6	289	28	4 5	3 0	328	28	5 7	3 0	034	25	1 9	1 2	071	25	1 8	1·0	237
0·3 a.m.s. l. .	28	4·2	1 3	343	28	2 7	0 7	324	28	4·0	2 8	333	28	4·9	3 0	036								
0·6 „ .	28	5 8	1 9	003	28	4 1	1·7	281	28	5 1	3 4	322	28	5·7	2 7	356								
0·9 „	28	5 7	2·5	314	28	5 1	3·0	270	28	5 1	3 5	316	28	5 9	2 4	315	25	1 9	1 1	060	25	1 8	1·1	229
1·5 „ .	28	6 7	4·8	293	28	6 6	4 9	280	28	5 5	4 0	289	28	6 9	4 6	278	25	3 4	1 4	280	25	3 1	1 9	229
2·1 „ .	28	8·4	7·1	281	28	7.6	5·9	275	28	7 0	5 2	269	26	8 7	6·4	262	23	5 8	4 6	279	25	5.3	4·5	259
3·0 „ .	28	10 7	8 7	276	28	10 2	8 8	271	27	10 6	8 9	270	24	10 3	8 9	270	20	9·9	9·5	270	24	11 3	10 5	274
3·6 „ .	25	11 4	10 9	269	27	12 3	10·9	270	26	13 3	11 8	271	2	8 5	8 5	270	17	13 6	13 4	273	20	12·8	12 4	273
4 5 „ .	22	15 4	14·4	274	23	15 4	14·2	273	25	15 9	14 6	271					9	17·2	16 9	272	15	16·9	16·1	268
5 4 „ .	19	20.6	19 6	268	21	18 8	17.7	271	23	20 5	19 8	274					2	22 0	21.3	279	8	19 5	19 0	273
6·0 „ .	15	22·0	21·3	271	20	22 1	20 9	271	21	22 1	21 3	275									5	22·2	21 6	263
7·2 „ .	7	27·0	26·4	277	17	30 1	28.8	276	16	28 1	27 2	278									1	36 0	36.0	290
9·0 „ .	4	32·2	31 2	286	6	45 3	44·8	275	4	34 0	32 3	285												

Station	IMPHAL/TULIHAL								JABALPUR									JAGDALPUR							
Time in I. S T.	1730				2330				0530				1730				2330				0530				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface .	28	2 0	1 8	288	28	1 4	0 5	330	28	0 7	0 4	114	28	1 4	0·6	298	28	1 0	0 5	115	28	0 1	0 1	145	
0·15 a. g. .	27	3·7	3 1	273	25	2·4	1 3	292	28	5 1	2 3	107	28	4 7	2 3	315	27	6·2	2·3	055	28	3 6	1 6	166	
0·3 a.m.s.l. .																									
0·6 „ .									28	5 6	2 1	097	28	4 4	2.4	306	27	6·3	2 6	050	28	1 6	0 8	168	
0·9 „ .	27	3 6	3·0	276	25	2·5	1 2	306	28	6·5	0 5	060	28	4 3	2 5	300	27	6 0	2 0	017	28	4 5	1 6	179	
1·5 „ .	27	4·1	3 3	248	25	4 1	3 3	268	27	5 3	3 2	301	28	4 8	3 3	285	27	4 9	2·3	288	28	4 2	0·6	293	
2·1 „ .	26	5 8	5 2	251	25	7 2	6 0	265	26	7·8	6 8	283	27	7 1	5·7	265	27	7·4	6 4	265	28	5·1	2·9	294	
3·0 „	23	10 4	9·0	269	15	12 6	10 5	277	25	12 8	10 8	281	26	11 5	10 1	263	24	12 0	10 3	272	28	6 5	4·9	298	
3·6 „	21	14 1	13 5	273	5	13 0	9·2	275	25	13 8	12 3	278	26	13 2	12·1	271	17	13 4	11·9	280	26	7 6	5·8	292	
4·5 „	17	17 8	17 5	269	2	11 0	10 9	272	21	16 0	14 6	279	23	17 1	16 0	276	3	12 3	12 3	295	23	10·0	8 4	285	
5.4 „	8	18 5	18 4	273					18	17 7	16 6	278	21	19 7	18·7	274	2	8 0	7·9	290	22	13 4	11.9	282	
6·0 „ .	4	20 7	20 7	278					13	18 6	27 7	277	16	23 6	22 6	275					22	15·8	14·0	280	
7·2 „ .	1	43 0	43.0	275					4	26·5	25 3	279	8	30·7	30 3	281					18	20.4	18.4	287	
9·0 „ .																					12	25.7	22.3	281	

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 0 Km. above mean sea level

February, 1965 (Magha 12—Phalguna 9, 1886 Saka)

Station	JAGDALPUR								JAIPUR/SANGANER												JAMSHEDPUR			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1 3	0 7	214	28	0 3	0 0	180	28	0 9	0 8	061	28	1 8	1 1	287	28	1 4	0 8	056	28	0 9	0 8	307
0·15 a. g.	28	3 8	0 9	247	28	5 6	1 2	062	28	6 0	3·1	050	28	4·0	2 4	287	28	6 4	2·8	030	28	2·9	1 7	315
0·3 a.m.s.l.																					28	2 9	1·5	316
0·6 „	28	2 8	0 7	232	28	3·9	0 5	078	28	6 2	2 9	044	28	4 2	2·5	285	28	6 7	2·7	061	28	3 5	1·1	310
0·9 „	28	4 4	1·3	211	28	5 8	1 4	040	28	6 7	1 4	331	28	4·3	3 0	287	28	6 1	2·1	355	28	4 2	1 7	294
1·5 „	28	4·3	1 2	283	28	4 4	1 5	336	28	6 0	4 4	232	28	5 1	3 7	200	28	4·8	3 1	277	28	5·9	4 5	280
2 1 „	27	4·6	2 6	288	28	4 0	2·1	284	28	8·0	6 5	285	27	5 8	4·2	291	28	6·4	5 7	260	28	8·2	7 3	286
3 0 „	24	5·0	3·3	283	27	5·5	4 0	280	25	9 2	7·4	278	26	9·3	7 9	279	24	8·6	7 6	268	27	11 3	10 8	284
3·6 „	22	5 9	4·9	280	9	7 1	6 2	282	25	11·3	10 1	278	26	11·5	10 7	279	10	11·0	9·8	277	24	11 9	11 3	281
4·5 „	17	9 7	7·8	275	5	8 6	7 8	267	24	14 3	12 9	279	25	14 4	13·7	277					18	15 3	14 4	277
5·4 „	15	13 3	12 6	277	3	10·3	9·7	258	19	17·8	16·5	273	25	18 7	18 3	276					6	17 5	16 1	264
6·0 „	14	14·7	14 4	280					16	19 7	18·0	272	25	22 2	21 7	279					2	16 5	16·3	300
7·2 „	12	23 3	21 7	292					5	24·0	23·7	275	15	27 7	26 9	283								
9·0 „	4	33·7	32·7	301					1	38·0	38 0	300												

Station	JAMSHEDPUR				JHARSUGUDA												JODHPUR							
Time in I.S.T.	1730				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1 5	0·6	317	28	1·8	1·6	040	28	1·7	0·7	265	28	1 5	0 4	173	28	1·8	1 5	031	28	2·0	0·5	089
0·15 a. g.	28	3·0	1·4	316	28	4·8	3·9	055	28	3·5	1·4	266	28	4·2	0 2	009	28	6·1	3 4	045	28	4·5	9 0	061
0·3 a.m.s.l.	28	3 2	1 4	324	28	3 8	3·1	051	28	3·0	1·2	278	28	3 8	0·7	094	28	6·0	3 3	045	28	3·8	1·2	069
0·6 „	28	3·5	2·2	297	28	5·1	2·4	060	28	4·0	2 3	279	28	4·6	0 9	306	28	5·9	2·2	045	28	4·5	0 8	084
0·9 „	28	3·8	2·8	290	28	4·9	1·0	031	28	4·3	3·0	276	28	4 5	2 0	285	28	5 3	0 9	003	28	4·5	0·1	075
1·5 „	28	5·3	4·5	274	27	4·7	3·4	285	28	5·3	4·0	279	27	4·7	3·6	281	28	5·2	2·7	268	28	5 2	1·8	280
2·1 „	28	7·9	7 1	278	26	7·7	6·8	290	28	7 0	5·7	287	27	7 2	5·4	287	28	6·6	4 7	267	28	6·2	3·6	271
3·0 „	26	11·3	10·5	285	26	10·3	9·2	292	26	10·6	9 5	295	24	8·7	7 6	286	28	8·7	6·9	270	28	8·5	7·2	271
3·6 „	21	12·9	12·5	291	26	11 8	10·7	288	26	12·2	11 5	286	1	14·0	14 0	245	27	10 4	9 1	270	28	9 6	9 1	271
4·5 „	19	16 3	15·8	281	20	14·5	13·4	285	25	16·3	16·0	278					26	14·3	13·2	271	27	14 8	14·4	286
5·4 „	11	18 7	18 3	274	14	16·6	15·1	285	23	19·5	17·8	276					25	18·3	17·0	271	27	20 0	19 2	274
6·0 „	5	18 8	18 3	273	11	19.4	17·8	283	15	19·1	18·9	276					25	22·1	20·7	270	27	23·1	22·4	276
7·2 „					3	20 3	18 6	288	4	20 0	19·8	275					23	30·3	29 6	274	24	31·0	30·3	280
9·0 „																	13	35·9	32·5	273	17	45·4	42·2	282

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

February, 1965 (Magha 12—Phalguna 9, 1886 Saka)

Station	JODHPUR								LUCKNOW/AMAUSI												MADRAS/ MINAMBAKKAM			
Time in I.S.T.	1730*				2330				0530				1730				2330*				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	28	2 8	1 2	286	28	2·1	0 8	050	28	1 5	0·5	332	28	3 1	1 9	307	28	1 8	0 8	313	28	2·2	1·6	065
0·15 a. g .	28	5·0	2 2	313	28	7.5	3 3	018	28	8 0	4 4	322	28	4 9	3 0	294	28	8 2	4 7	306	28	4 2	2 2	075
0·3 a.m.s.l. .	28	5·0	2 2	313	28	6·5	2·4	027	28	8 0	3·3	351	28	5 0	3 1	294	28	8 2	4 7	306	28	4·6	2·5	085
0.6 ,, .	28	4·6	1·9	293	28	7·5	2 5	011	28	7 9	5 3	298	28	5 8	3·6	291	28	7 6	4·6	312	28	5·2	3·3	098
0·9 ,,	28	5·1	2 4	267	28	6 6	1 7	326	28	7·7	5·5	300	28	5 8	3·8	290	28	7·2	4·7	298	28	6·0	4·2	097
1·5 ,, .	28	4 9	2·6	261	28	5 3	2 7	254	28	9 3	8 0	291	28	6 9	5 7	290	28	7 7	6 2	287	28	5·5	4·0	083
2·1 ,, .	28	5 0	3 3	260	28	6 7	4·6	208	28	10 3	7 6	283	27	8 2	7 2	285	25	8 6	7 3	276	28	5·7	3·8	068
3.0 ,, .	28	7·6	6·5	268	27	9·5	7·4	262	22	11 3	5 4	296	27	12 0	10·4	281	19	11·5	10·2	272	28	5·0	1·9	066
3.6 ,, .	28	10 0	9·4	271	9	9·0	7·0	276	19	13 5	12 1	276	26	12 4	10·7	273	7	8 9	7·6	269	28	4·8	0·5	052
4·5 ,, .	28	14·9	14·1	274	3	11·7	11·3	282	10	14·7	14 2	281	23	16 6	15 0	281					28	5·1	1 2	309
5·4 ,, .	28	20 3	19·1	273					9	21 3	20·2	275	19	21 4	21 1	289					28	5·9	3·2	300
6·0 ,, .	28	23·4	22·1	273					7	22·6	21·9	282	15	23 7	22 8	274					28	6 7	3·9	300
7·2 ,,	27	29 3	27 2	276					3	27 0	26 2	274	11	30 8	22 5	293					28	6 8	4 5	302
9·0 ,, .	14	39·6	38 2	278									2	28 5	28 1	289					28	10 4	6·8	297

Station	MADRAS/MINAMBAKKAM												MANGALORE/BAJPE											
Time in I.S.T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	28	2 7	1 5	080	28	4·7	3·4	086	28	2·6	2 0	095	28	0 7	0 6	080	28	4·2	3·8	282	28	0 7	0 6	348
0·15 a.g. .	28	4·3	2 3	083	28	6·3	4·0	089	28	5·7	4·2	089	28	5·5	3 2	069	28	6·9	6 5	279	28	5·1	4·4	334
0·3 a.m.s.l. .	28	4·2	2·2	096	28	6·0	3·7	088	28	6 2	4·6	089	28	5·9	3·1	068	28	6·8	6·4	280	28	5·0	4·5	338
0·6 ,, .	28	4·3	2·6	094	28	5·5	3·8	098	28	6·3	4·8	089	28	6 4	3·6	065	28	4·9	4·0	294	28	5·0	4 6	335
0·9 ,, .	28	5 1	3·7	093	28	5·9	4 6	089	28	6·5	5·5	088	28	6·3	3·3	064	28	3·1	1·6	342	28	4·1	3 0	348
1·5 ,, .	27	6 3	5 0	083	28	5·6	4·4	078	27	5 6	4 5	087	28	5 4	2 9	077	28	4·1	3·2	073	28	4·7	3·2	072
2·1 ,, .	23	7·4	5 5	069	28	5·6	3·8	062	26	5·8	3·5	087	28	5·1	3·3	110	28	5·9	5·2	080	28	7·4	6·6	088
3·0 ,, .	17	4·6	2·8	072	28	5 4	1·0	013	23	4·8	2 5	075	28	5 0	2·7	099	27	7·2	5·1	083	27	7 0	5·4	084
3·6 ,, .	16	4·1	1·3	081	28	4·5	1·0	355	16	4 9	2 0	073	26	5·7	2·0	057	22	5·2	1·7	058	19	5·6	1 3	057
4·5 ,, .	14	4·4	0 9	088	28	5 2	2 3	293	7	6 6	4·7	020	25	5·5	0·5	333	21	6·0	1 5	342	14	5 4	2 8	349
5·4 ,, .	13	3 8	1·0	270	28	6 1	3 7	311	2	3·0	2·5	002	23	6·1	2·8	319	18	6 9	3·4	330	6	5·5	2 7	317
6·0 ,, .	13	4.6	1 4	268	28	6 2	3 7	296	1	9·0	9·0	255	22	7·4	4·0	311	18	7·9	4·2	327	5	6·2	4·3	357
7·2 ,, .	10	6 2	2·1	322	28	7 3	5 1	305					19	9.8	6·8	330	17	9 9	6 2	327				
9·0 ,, .	6	4·7	1·5	045	28	10 4	7 5	293					14	11 1	7·7	331	9	10·1	7·1	315				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea evel

February, 1965 (Magha 12—Phalguna 9, 1886 Saka)

Station	MINICOY												NAGPUR/SONEGAON							
Time in I.S.T.	0530				1130				1730*				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	28	1·1	0 7	005	28	1 9	1 7	008	28	3 0	2 7	002	28	1 4	1 2	012	28	2 1	1 4	351	28	2·3	1 3	038
0·15 a. g. .	28	3 3	2 4	010	28	4 1	3·7	009	27	3 7	3·4	357	28	3 6	3 1	009	28	5 7	3 0	040	28	3 8	2 3	041
0·3 a.m.s.l. .	28	3·5	2·5	015	28	4·4	4 0	012	27	3 9	3 6	351	28	3 6	3 1	015								
0·6 ,, . . .	28	3.6	2·6	034	27	4·5	4·0	024	27	4 5	4 1	027	28	3 7	2·9	034	28	5 9	2 7	041	28	4 1	1 9	060
0·9 ,, . .	28	4 6	3 3	057	27	5·0	3 9	039	27	4 7	4 0	039	28	4 4	3 3	060	28	5 7	1 6	098	28	4 2	0 9	152
1·5 ,, . .	28	7 0	4 9	078	26	6 7	4 5	069	27	5 4	3 5	058	28	6 2	3 8	073	28	4 9	0 9	242	28	4 4	1 8	217
2·1 ,, . .	28	5·9	3 2	081	27	6·3	3·0	074	27	5·6	2 8	059	28	5 5	3 0	055	28	4 9	2 6	260	28	5 7	3 3	254
3·0 ,, . .	26	5·0	1·6	102	23	5 3	1 8	093	27	4·7	1 2	044	27	4 2	2·3	065	28	8 4	6 3	275	28	8·2	6·4	268
3·6 ,, . . .	24	4 8	1·6	077	20	4·7	1 8	084	27	4 6	1 7	056	7	4 6	2·1	069	28	10 0	8 3	282	28	10 2	9 2	278
4·5 ,, . . .	23	5·1	3·1	073	18	6 0	3 9	035	27	5 1	2 6	074					28	11 0	10 1	286	28	13·5	12 5	275
5·4 ,, . .	21	7·5	5 5	065	17	6 4	5 3	075	27	5 8	3·7	070					28	15 2	14 3	282	28	17·4	16 4	277
6·0 ,, . .	20	7 8	6·4	057	17	7.5	5.5	070	27	6 4	4 3	058					28	16 8	16 1	282	28	21·5	20·3	282
7·2 ,, .	11	7·8	6·4	049	12	9·3	7·4	059	27	9 4	6 8	051					28	22 5	21 4	282	27	27·8	26·3	280
9·0 ,, .	5	8·4	4 4	034	3	11·0	8 2	052	27	7·2	4·3	063					28	27 2	25 9	283	25	36·5	34·6	279

Station	NAGPUR/SONEGAON								NEW DELHI/SAFDARJUNG															
Time in I.S.T.	1730*				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	28	1·5	0·1	046	28	2·4	1 0	034	28	2 2	1·5	341	28	3 0	2·0	300	28	2 6	1 3	312	28	2·5	1 2	332
0·15 a. g. .	28	2·7	0 6	334	27	7 0	2 8	062	28	7 6	4·5	346	28	5 1	3 1	304	28	5 9	2 5	304	27	7 7	4 5	347
0·3 a.m.s.l. .									28	5·7	3·4	348	28	4 6	2 4	310	28	5·3	2 4	307	27	6 3	4·1	340
0·6 ,, . .	28	2·8	0 5	345	27	6 8	2 5	059	28	7·9	4·4	340	28	5·8	2 7	306	28	5·9	2 8	300	27	9 2	4 8	325
0·9 ,, . .	28	2·9	0 2	226	27	5·2	1·4	058	28	8 7	4·6	319	28	6 8	3 1	306	28	5·7	3 2	294	27	9 3	3 9	315
1·5 ,, . .	28	3·4	1·5	255	27	3 4	1 1	261	27	8 4	5 9	302	25	8 0	5 2	303	28	6 6	4 6	295	27	7 6	5 9	295
2·1 ,, . .	28	4·4	2·4	264	27	4 7	3 6	265	27	8 8	6·5	291	25	7 3	5·4	296	28	7 8	6 1	288	26	7 2	5·8	320
3·0 ,, . .	28	6·9	5·1	275	27	7·9	6·7	269	28	10 3	8 7	284	23	8·5	7·3	295	28	8 4	7 1	286	20	8·9	7 9	287
3·6 ,, . .	28	8·7	7 1	279	23	9·4	8·8	269	28	11 0	9·8	283	23	9 7	8 7	286	28	9 6	8 5	282				
4·5 ,, . .	28	11 1	10·3	273	10	11·2	10·4	285	28	13 6	12 7	277	23	14·7	11 0	279	28	14 0	12 5	278				
5·4 ,, . .	27	14.6	13 6	281	4	15·0	14·5	299	28	17·0	15 7	277	21	15 1	14 2	280	28	17·6	16 0	273				
6·0 ,, . .	27	16·6	15.5	284	3	21·3	21·3	296	28	20 8	19·4	279	20	17 6	16 9	280	28	19.2	17·9	274				
7·2 ,, . .	27	22 6	21·1	280					28	25 3	24·0	279	14	20 6	19 8	275	28	26 1	25.2	275				
9·0 ,, .	27	24 3	22·8	279					28	38·0	36 9	276	5	31 6	24 0	284	28	35 8	33 7	276				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 0 Km above mean sea level

February, 1965 (Magha 12—Phalguna 9, 1886 Saka)

Station	POONA												PORT BLAIR											
Time in I S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	0 1	0 1	225	28	1 4	0 9	278	28	0 1	0 0	090	28	2 0	1 7	040	28	3 1	2 8	051	28	2 7	2 4	045
0·15 a. g. .	28	3 2	0 4	315	28	4 5	2 5	288	28	4 5	2 1	287	28	4 4	3 9	042	28	5·5	5 0	053	28	5 2	4·7	052
0 3 a.m s.l. .													28	4 7	3 9	046	28	5 6	4 9	055	28	5 2	4 7	053
0 6 „ . .	28	1·9	0·8	232	28	2 8	1 6	288	28	2 2	1·2	239	28	6·1	5 2	061	27	5 8	4 9	059	28	5·3	4 6	050
0 9 „ . .	28	5 1	1 0	045	28	4 6	2 3	279	28	5 8	2 8	314	28	6 3	5 3	079	27	6·1	5 2	083	28	5·6	4 5	063
1·5 „ . .	28	6 7	1 1	091	28	4 1	1 8	264	28	6 5	2 0	305	28	6 6	5 8	094	24	6 8	6 0	095	28	5 7	4 6	088
2·1 „ . .	28	6 6	1·2	171	28	4 1	1 5	251	28	5·4	0 6	158	28	6 7	6 1	098	23	6·0	5·4	102	28	5 7	4·9	100
3·0 „ . .	28	6·4	3 4	251	26	6·0	3 0	275	28	6 0	1·1	179	28	5 8	4·9	109	22	4·7	3·5	115	28	4·9	4·2	112
3·6 „ .	21	7·8	6·2	281	24	6 9	4 7	296	26	6 1	3·1	286	28	4 9	3 2	227	21	4 2	2 9	120	28	4·5	2·9	126
4 5 „ . .	11	8 7	7 6	281	22	9·2	8 0	295	17	8 5	7 2	290	28	4 0	1 4	167	21	4 3	1 5	158	28	4·1	1·5	159
5·4 „ . .	2	9 0	9·0	280	21	13 0	11 5	297	6	9·0	7 8	274	28	5 4	2 4	224	19	4 9	0.9	201	28	5 2	2·1	221
6·0 „ .	1	5 0	5 0	245	21	14 8	13 1	292	1	15·0	15·0	295	28	6·8	2·9	229	19	5 6	1.1	281	28	6·1	2 4	224
7·2 „ . .	1	3 0	3 0	250	18	20 4	17 9	298					28	7 9	3 9	239	17	5·9	1·7	231	28	7·3	3·2	230
9·0 „ . .	1	13 0	13 0	295	8	26 4	24 9	301					28	8 0	4 1	245	17	6.8	2.8	192	28	7·6	3 4	236

Station	PORT BLAIR				RAIPUR												RAXAUL							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	28	2 4	2 2	047	28	1 4	0 1	285	28	1 8	0·5	310	28	1·8	0 4	066	28	1 5	0 5	087	28	2 0	1·3	258
0·15 a. g .	28	5 1	4 7	041	28	5 8	2 6	055	28	3·1	1 1	295	28	4·6	0 9	097	28	5·0	0 3	356	28	5·0	3·6	257
0.3 a.m.s.l. .	28	5 3	5 0	044													28	5·0	0·4	333	28	5·2	3·9	259
0·6 „ . .	28	5·2	4 7	054	28	6 9	2 2	076	28	3 2	1·2	288	28	4·3	0·4	109	28	5·0	2 1	294	28	5·3	4·2	263
0·9 „ . .	27	5 5	5 0	076	28	5 8	0 7	098	28	3 4	1 4	269	28	4 0	0·6	267	28	5 4	3 1	285	27	5 4	4 2	257
1·5 „ .	27	5 7	4 7	090	28	4 6	2 4	266	28	3 9	2 4	263	28	4 4	2 9	267	28	4·7	3 0	279	27	5 5	4·4	276
2·1 „ . .	22	5 8	5·0	101	27	6·9	4 6	282	28	6 3	4·1	277	28	5·8	4·4	278	28	6·4	4 2	286	27	6·2	5·2	286
3·0 „ .	19	5·5	4 4	113	27	8 7	7·4	281	28	9·2	7 4	284	26	8·5	7·4	276	21	8·6	7·7	281	20	8·7	8·2	287
3·6 „ . .	11	4 3	2·7	147	27	10·0	9 4	287	27	10 8	9 3	275	14	10·3	9 6	268	17	10 3	9·9	282	16	10 3	9·9	292
4·5 „ . .	7	4 7	1 3	167	26	14 0	12·8	263	25	13 4	12·7	268	7	12 9	12·6	279	11	12 4	12·1	289	6	11 7	10·9	281
5·4 „ . .	4	4 0	0 7	123	25	17 4	16 4	275	24	17 7	17 1	276	2	10 5	10·5	267	1	15·0	15 0	265	4	15.7	14.3	284
6 0 „ .	3	5 3	4 4	144	23	19 8	18·6	275	21	20 6	19·6	277	1	8·0	8·0	260					1	12 0	12·0	345
7·2 „ . .					19	25·3	23·6	276	17	24 1	23 4	279												
9·0 „ . .					5	37 4	35·6	269	4	30 0	28 0	259												

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 0 Km. above mean sea level

February, 1965 (Magha 12—Phalguna 9, 1886 Saka)

Station	SILIGURI/BAGHDOGRA												SRINAGAR								TIRUCHCHIRAPPALLI			
Time in I.S.T.	0530				1730				2330				0530*				1730*				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	28	1 6	1·4	050	28	2 0	0·9	214	28	1 6	0·9	025	20	0 7	0 2	309	22	1 8	0 3	329	28	2 6	1 8	010
0 15 a.g. . .	27	4 0	3 0	068	28	3 7	1 7	230	28	3 1	1·3	045	20	1 5	0 2	232	22	2 0	0 8	328	28	5 6	4·1	027
0 3 a.m s.l.	27	4 0	3 3	072	28	3·8	1·7	230	28	3·2	0·9	030									28	6 0	4 6	038
0·6 „ . .	27	4 3	3 6	070	28	3·8	2·5	237	28	3 1	0 7	280									28	7 1	5 9	063
0·9 „ . .	27	3 2	2 4	068	28	4 0	3 0	247	28	3 5	2 4	263									27	7 5	6 5	073
1·5 „ . .	26	3 5	0 5	278	26	4 7	4 0	252	26	4·3	1·4	249									26	7 5	6 5	071
2·1 „ .	23	5 5	2 2	275	22	5 8	4 8	270	18	4 0	2 7	275	20	1 8	0 6	146	22	2 0	0 1	011	25	6 4	5 2	071
3·0 „ . .	19	9·5	8 1	280	20	11 9	10·8	284	15	9 0	8·5	281	20	4·5	4 2	138	22	4·7	4 3	158	21	5 8	2·8	079
3·6 „ . .	16	16 0	10 6	277	15	15·0	14·9	282	2	8 5	8 2	285	20	5 3	4 9	162	22	6 1	5 7	175	18	6 2	1 8	110
4·5 „ .	6	19 0	13 6	280	6	20 2	20 0	285					20	6 7	5 0	193	22	9 1	7 4	208	14	5 5	2·6	052
5·4 „ . .	1	21 0	21 0	300	4	24·7	24·5	287					19	10·9	8 0	247	22	12 3	10 1	228	13	5·7	1·3	067
6·0 „ . .					1	21 0	21 0	270					19	12 3	9 5	253	22	15 0	11 4	241	11	5·7	1·8	043
7·2 „													18	18·2	15 1	254	22	18 3	14·4	252	9	5 4	2 3	049
9·0 „ .													18	26.6	22 3	262	19	24 0	17 2	255	7	7 6	2·7	018

Station	TIRUCHCHIRAPPALLI								TRIVANDRUM											
Time in I S T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	28	4·4	4·0	083	28	3·7	2 7	087	28	1 0	0 8	020	28	1 1	0 4	303	28	2 7	2 3	268	28	1 1	0 9	377
0·15 a. g. .	28	6 1	5·6	071	28	7 3	6 0	077	28	2 9	1 3	359	28	2 5	0 7	267	28	4 9	4.1	261	28	3 7	2 8	313
0·3 a.m s.l.	28	6 3	5 7	071	28	7 7	6.4	075	28	2 6	1·0	359	28	2·4	0·8	272	28	4 8	3 7	264	28	3 9	2 8	316
0.6 „ .	28	6·3	5 4	072	28	8 1	7·1	071	28	3 0	0 6	031	28	2·2	0 6	352	28	4 5	2 2	280	28	3.7	2.7	339
0·9 „ . .	28	6·6	5 7	069	28	8·1	7·3	067	28	3·0	1 6	057	28	3 0	2 0	029	28	4 1	2 1	030	28	4 3	3 1	022
1 5 „ . .	28	7·0	5 9	060	28	7·2	6·4	064	28	5·5	4 2	061	28	4 5	2 7	050	28	7 9	6 4	043	28	6 9	5 6	054
2·1 „ . .	28	6 5	5 4	050	27	6·7	5 3	055	28	4·1	1·9	058	20	5·3	2 2	053	28	7 8	6 1	043	26	6 2	5·0	053
3·0 „ . .	26	4 9	1·6	046	25	3 7	0·8	061	28	4 0	1 3	101	19	4 1	1 6	121	28	4 4	0 8	014	25	3 6	0·7	107
3·6 „ . .	24	4 3	1 0	085	24	3 7	0 9	043	28	4·2	0 9	081	17	3 9	1 2	118	28	5·0	1 4	055	17	4·2	0.9	078
4·5 „ . .	17	4·6	1·1	045	15	4 8	2·4	071	27	4·9	2 0	086	15	6·4	1 6	050	28	5 9	1 8	091	6	3 0	2·1	116
5·4 „ . .	15	5 6	2 5	040	11	6·3	4·3	050	27	6·2	3 1	074	14	7·0	1·8	090	28	6 2	3 1	065	1	5 0	5 0	085
6·0 „ . .	15	5 8	2·6	030	6	6·2	5·5	041	27	6 1	3·2	072	12	5 6	1 9	093	28	6·9	3 8	060				
7·2 „ . .	9	6 2	3 5	010					27	7 3	4 5	065	7	7.9	4·1	065	28	8 1	4·9	050				
9·0 „ .	4	4·7	0 1	108					25	9 2	4·0	036	6	9 7	7·0	037	27	8 6	3 7	033				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 0 Km. above mean sea level

February, 1965 (Magha 12—Phalguna 9, 1886 Saka)

Station	UDAIPUR												VENGURLA											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	28	0 1	0·1	315	28	0 8	0 6	232	28	CALM			28	0 5	0 5	360	28	2 9	2·5	285	28	0 5	0 5	352
0·15 a.g. .	28	2·8	1 1	359	28	3 5	0 8	250	28	3 6	1 4	342	28	5 0	3 9	023	28	4 9	4 5	282	28	5 3	5·2	353
0·3 a. m. s. l.													28	6 3	4·5	015	28	5 5	4 7	282	28	6·1	5·9	352
0·6 ,, .													28	7 2	4 4	013	28	5 0	2 2	302	28	6 0	5 1	350
0·9 ,, .	28	4 0	1 4	333	28	4·2	1·0	233	28	4 1	1 3	340	28	7 1	2 9	015	28	4 1	1 4	317	28	5 6	3 5	344
1 5 ,, .	28	5 4	1·3	276	28	5 3	2 3	256	28	5 1	1 4	276	28	5 7	1 7	117	28	4 1	1 9	071	28	4·9	1 1	068
2·1 ,, .	28	6·8	4·5	266	28	5·2	3 4	265	28	5 2	3·7	256	28	5 2	3 2	125	28	5 0	2·8	082	28	6·2	4·5	101
3·0 ,, .	28	9 2	7 5	265	28	7 1	5·9	264	28	6·9	6 0	269	28	4 4	1 0	144	28	6 0	3·0	050	28	6 0	3 3	091
3·6 ,, .	28	10 6	9·0	266	28	9·2	8 2	268	24	8 0	6 5	279					28	6 2	2 5	001	15	6·4	2 3	354
4·5 ,, .	28	13 7	12·7	273	27	13·1	12·2	281	7	11 1	10 8	282					28	6 5	3 7	318				
5·4 ,, .	28	17 3	16·2	274	27	17·3	16 5	282									28	7·6	5 5	298				
6·0 ,, .	27	19 0	18·0	273	27	18 1	17 2	283									28	9 9	7 9	300				
7·2 ,, .	21	23 0	21·7	276	27	23 7	22 3	282									27	13 0	10 5	304				
9·0 ,, .	13	28·2	28·2	288	10	27 2	24 1	272									13	17 9	15 7	310				

Station	VERAVAL												VIJAYAWADA/GANNAVARAM											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	28	4 2	3 5	007	28	6·1	4·7	262	28	3·3	2 5	309	28	2 4	1 3	073	28	3 9	2 9	149	28	1·8	1·5	128
0·15 a. g. .	28	8 8	6 7	358	28	6 1	4·1	260	28	7 1	5 1	315	26	4 0	2 5	119	28	4·6	3 4	146	28	6 1	5 4	144
0·3 a. m. s. l.	28	9 0	6·0	358	28	6·0	4 0	270	28	7 5	5 0	319	26	4 9	3 3	134	28	4 8	3 6	146	28	6 6	5·7	144
0·6 ,, .	28	7·5	4·3	355	28	5·5	2·6	304	28	7 1	4 1	334	26	5 6	3 5	140	28	4 9	3 5	144	28	5·8	4·7	138
0·9 ,, .	28	6·3	2·5	354	28	5 5	2 6	323	28	7·2	3·4	348	26	5 5	3·3	139	28	4·1	2 1	138	28	5·0	3·3	124
1·5 ,, .	28	5·8	2·1	271	28	5·9	2·9	326	28	6·0	1·1	326	26	4 4	1 3	075	28	4 1	0 7	062	28	3·7	1·4	052
2·1 ,, .	28	6 8	4·0	258	28	6·7	4 0	287	28	7 6	2 9	274	26	4·8	1·0	345	27	4 8	1 8	347	28	5·4	2 4	353
3·0 ,,	28	7·6	5 6	277	28	8·7	6·7	282	28	8 6	5·8	282	26	5 5	2 3	289	25	5·3	3·0	293	28	6·1	2·7	308
3·6 ,, .	1	12 0	12 0	270	28	10·3	8·7	284	12	10 1	9 7	278	25	4·9	3 0	278	24	5·8	4·1	277	19	6 4	5·0	278
4·5 ,, .	1	13 0	13 0	270	28	13·7	12 9	288	7	11·6	11·5	281	25	7·4	5·1	292	23	8 3	7·2	283	16	8 1	7·1	280
5·4 ,, .					28	17 2	16·6	290	4	10 7	10·4	295	24	9·8	8·3	279	22	10 8	10·1	286	12	10 1	9 1	283
6·0 ,, .					28	20 0	19 2	288	2	17 5	15·3	274	24	11·4	9·7	280	21	12 9	11·7	280	9	10·9	9·8	290
7·2 ,, .					25	26·6	25·6	295					22	14 9	12·8	294	16	16 6	15·0	286	1	15·0	15·0	285
9·0 ,, .					16	35 6	34 2	294					16	19 2	16·4	276	10	19 9	18·4	277				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

February, 1965 (Magha 12—Phalguna 9, 1886 Saka)

Station	VISHAKHAPATNAM															
Time in I.S.T.	0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	28	3.1	2 4	349	28	2 3	1·2	153	28	3·4	0 9	053	28	1 7	0 9	220
0·15 a.g. .	28	5·6	4 4	003	28	5 0	2 4	141	28	5 0	2 2	053	28	4·2	2 0	199
0·3 a.m.s.l. .	28	5 1	2 8	001	28	4 8	1 8	143	28	5 4	1 8	087	28	4 4	2·1	194
0·6 „ . .	28	4 3	0 4	296	28	4 0	0·1	251	28	5·7	2·4	145	28	5 2	2·6	188
0·9 „ . .	28	4 3	0 6	143	27	4 0	0 6	349	28	5 3	1 2	157	27	5 5	2·4	188
1·5 „ . .	28	4·8	1 6	339	27	4 4	1·5	010	28	5 0	2 1	331	27	4·1	0 9	293
2·1 „ . .	28	5·0	2·5	329	25	4 2	1·9	338	28	5·6	4·0	327	23	3 7	2·7	345
3·0 „ . .	28	6 3	3·6	295	24	5·1	2·7	291	28	7·4	5 6	312	20	4·1	2 1	305
3·6 „ . .	28	7 1	4 9	290	22	6 1	4·3	285	28	6·9	5·8	290	6	3 8	1·3	162
4·5 „ . .	28	9·9	8 6	281	21	8·6	6 8	267	28	9 5	8 1	276	2	5·5	4 2	003
5·4 „ . .	28	12 8	11 0	275	20	11·4	9·7	276	28	13 5	12 6	275	2	6·0	4 9	340
6·0 „ . .	28	16·4	14·7	274	20	13·1	12·1	276	28	15·8	14 5	278	1	5 0	5 0	070
7·2 „ . .	28	21·1	18 8	280	15	16·7	15·0	279	28	19·6	17·8	278				
9·0 „ . .	27	27 1	25·5	275	9	23·2	19 6	281	27	27·1	24 4	278				

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 Km. above mean sea level

February, 1965 (Magha 12—Phalguna 9, 1886 Saka)

Ht. in Km.	n	V	v	D
	AHMADABAD			
	0530 hr.*			
10·5	15	51 8	49 3	283
12·0	8	53 9	48 7	271
14·1	1	36·0	36 0	280
	1130 hr.			
10·5	1	32·0	32 0	265
	1730 hr.*			
10·5	12	42 7	39 3	279
12·0	7	40·7	38 5	273
14 1	2	46 5	45·5	280
	ALLAHABAD/ BAMHRAULI			
	0530 hr.*			
10·5	14	54 3	50 7	267
12·0	10	53·5	49 6	273
14·1	4	55·5	53 7	266
16·2	1	61 0	61 0	272
	1130 hr.			
10 5	1	42 0	42·0	305
	1730 hr.*			
10 5	17	49 8	46 4	271
12·0	13	50 2	47 3	271
14·1	4	42·5	41·1	282
16·2	1	36·0	36·0	290
	ANANTAPUR			
	0530 hr			
10·5	6	17 0	15 3	281
12·0	4	11 5	3 9	268
	1730 hr.			
10 5	2	13 5	11·1	277
	BANGALORE			
	0530 hr. @			
10 5	18	11·1	7 1	279
12·0	18	11·3	7 3	220
14·1	14	13·4	4 2	200
16·2	12	6 2	2 3	288
18.0	12	7·8	4·8	297
21·0	5	9·0	3·7	359
24·0	4	17·0	10 8	015

Ht in Km.	n	V	v	D
	1130 hr			
10·5	15	9 5	4 7	262
12 0	15	9 8	5 4	218
14 1	13	8 4	6 1	197
16 2	12	10 0	6 8	194
18 0	12	5 0	1 6	159
21·0	6	9 7	7 8	290
24 0	2	9 5	2 5	177
27 0	1	4 0	4 0	090
	1730 hr.@			
10 5	22	10·5	7·7	271
12·0	19	11·6	7·3	226
14·1	13	11 5	6 6	203
16·2	11	7 2	2·2	284
18 0	8	9 6	2 5	303
21 0	6	9·7	6 2	250
	BEGAMPET			
	0530 hr.			
10 5	3	15 7	15 5	300
12 0	2	13 0	13 0	274
14 1	2	15 5	15 1	250
16 2	2	18 0	17 9	266
18 0	2	16 5	16 5	258
21 0	1	21·0	21 0	250
	1730 hr.			
10·5	2	13 0	12 9	296
12 0	1	17 0	17 0	300
14·1	1	18 0	18 0	280
16·2	1	14·0	14 0	265
18·0	1	20 0	20 0	255
	BOMBAY/ SANTACRUZ			
	0530 hr.*			
10 5	28	27 0	24 0	266
12 0	28	29 0	26 6	258
14·1	18	30 6	27 5	263
16 2	12	23·9	22·8	272
18·0	1	18 0	18 0	300

Ht. in Km.	n	V	v	D
	1130 hr			
10 5	19	32 8	30 9	275
12 0	17	32 8	30 2	266
14 1	10	28 5	27 9	269
16·2	4	22 7	19·4	246
18 0	2	15 0	14 3	293
	1730 hr *			
10 5	28	26 7	25·4	264
12 0	28	28 0	26 4	254
14 1	19	30 2	28 9	260
16 2	11	21·3	17 6	265
	CALCUTTA/DUM DUM			
	0530 hr.*			
10 5	28	37 1	34 3	263
12·0	25	36 0	33·6	260
14 1	19	33 7	31 9	263
16 2	16	24 3	23 4	263
18 0	12	21·0	18 3	268
21 0	6	14 8	14·0	276
24 0	1	38 0	38·0	290
	1130 hr			
10 5	1	25 0	25 0	260
	1730 hr.*			
10 5	27	40 9	38 1	263
12 0	24	38 9	36·0	266
14·1	17	36 1	34 6	265
16 2	11	33 9	32 4	258
18·0	4	17 0	16 5	268
21·0	1	35 0	35 0	281
	DIBRUGARH/ MOHANBARI			
	1130 hr.			
10 5	7	41 0	39 6	272
12·0	1	69 0	69 0	299
	GADAG			
	0530 hr.			
10 5	21	17 5	16 0	275
12 0	16	16 8	14 9	248
14 1	13	16·0	13 3	248
16 2	13	7·7	7 3	260
18 0	11	10 5	7 4	276
21·0	9	12 9	8 2	283

Ht. in Km.	n	V	v	D
	1730 hr.			
10 5	15	15 9	12 5	267
12 0	14	15·1	12 4	252
14·1	9	12·2	9 2	242
16 2	8	12 3	8 9	291
18 0	8	10·7	7·1	318
21 0	6	15·0	11 7	290
24 0	1	43 0	43 0	230
	GANGTOK			
	0830 hr			
10 5	2	42 0	41 5	278
12 0	1	54 0	54 0	255
	GAUHATI			
	0530 hr *			
10 5	10	46 7	45 0	277
12 0	4	50 0	48 5	281
	1730 hr. *			
10 5	11	46 6	44 8	277
12 0	7	49·3	47·1	272
14 1	3	58·7	57·0	283
16 2	1	56·0	56·0	280
	GWALIOR			
	0530 hr.			
10 5	3	41 3	40 5	284
	1130 hr.			
10 5	2	38 5	38 3	286
	JAGDALPUR			
	0530 hr.			
10 5	9	31·1	28·1	277
12 0	1	37·0	37·0	250
	1730 hr.			
10 5	3	31 6	31·5	302
	JODHPUR			
	0530 hr *			
10·5	7	46·1	40·9	267
12 0	3	54·0	46·3	305
14·1	1	64·0	64·0	304

Ht. in Km.	n	V	v	D
	1130 hr			
10·5	6	61 5	60 0	271
12 0	4	70·5	70 3	269
	1730 hr.*			
10·5	8	54·7	52 7	287
12·0	3	54 7	53 2	273
14 1	1	54·0	54 0	270
	MADRAS/ MINAMBAKKAM			
	0530 hr.*			
10·5	28	11·0	7 8	280
12·0	28	10·4	7 2	226
14 1	24	11·1	6 1	224
16·2	23	7 3	2 5	284
18 0	16	6 3	3 9	281
21 0	10	6·4	4 3	263
24·0	2	9 5	9 3	095
	1130 hr			
10 5	4	6·0	1·1	011
12·0	2	9 5	8·5	155
14·1	1	6·0	6·0	065
16·2	1	6 0	6 0	290
18·0	1	5 0	5 0	085
	1730 hr *			
10 5	27	9 4	6 1	264
12 0	27	11 1	7·5	228
14·1	25	10 6	6 8	208
16 2	24	5·4	0·6	228
18 0	19	7 7	4·6	274
21 0	13	6 8	5·4	258
24 0	3	5·3	3·2	288
	MANGALORE/ BAJPE			
	0530 hr.			
10 5	7	6 7	2 7	345
12 0	6	6 3	2 4	073
14 1	1	7·0	7·0	160
	1730 hr.			
10 5	6	8 5	6·1	330
12 0	4	5 5	3·4	005

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9 0 Km. above mean sea level

February, 1965 (Magha 12—Phalguna 9, 1886 Saka)

Ht. in Km.	n	V	v	D
		MINICOY		
		1130 hr		
10 5	1	6 0	6 0	045
12 0	1	4 0	4 0	090
14 1	1	5 0	5 0	030
16 2	1	8 0	8·0	015
		1730 hr *		
10 5	27	7·1	4 5	118
12 0	27	12 8	11 9	143
14·1	26	17 8	16 5	128
16 2	23	8·4	5 9	089
18 0	20	7 9	0 9	172
21·0	18	11 1	10 2	275
24 0	5	11·2	9 2	217
		NAGPUR/ SONEGAON		
		0530 hr.*		
10 5	28	29 7	27·1	279
12 0	28	26 8	24 6	275
14.1	8	24·5	23 5	258
16 2	1	14·0	14·0	260
		1130 hr.		
10 5	13	40 4	37 3	276
12 0		42 5	39 1	265
		1730 hr *		
10·5	27	28·2	26 3	271
12·0	27	25 1	22·3	268
14·1	7	26·1	22 0	262
16 2	2	24·0	23·9	282
18·0	1	15·0	15·0	295
		NEW DELHI/ SAFDARJUNG		
		0530 hr.*		
10·5	24	46.7	44 8	278
12·0	20	52 5	50 5	277
14·1	17	42 5	39·7	275
16 2	14	22·9	21·9	270
18·0	14	12 4	11 0	256
21·0	9	5 5	1 9	011
24·0	2	3 5	3 5	079
		1130 hr.		
10·5	1	36·0	36·0	270
12·0	1	40·0	40·0	273

Ht in Km.	n	V	v	D
		1730 hr.*		
10 5	28	48 1	45·9	276
12·0	25	55 9	53 4	277
14 1	22	44 5	42 7	274
16 2	21	22 5	21 4	273
18 0	21	12 1	8 3	282
21 0	12	7 4	3 4	332
24 0	6	6 2	5·3	018
27 0	1	5 0	5 0	035
30 0	1	7 0	7 0	215
		POONA		
		0530 hr		
10 5	1	16 0	16 0	235
12 0	1	10·0	10 0	255
		1730 hr.		
10 5	4	22 0	20 5	275
12 0	1	23 0	23 0	310
14 1	1	21 0	21 0	310
		PORT BLAIR		
		0530 hr.*		
10·5	28	9·3	4·8	229
12 0	28	10 6	7·2	221
14 1	20	15 9	11 2	185
16 2	11	10·6	6·1	140
18 0	6	6 5	2 7	090
21 0	4	5·3	1·7	244
24.0	1	9·0	9 0	095
		1130 hr.		
10·5	17	8 1	4 2	186
12 0	17	9·8	6·0	180
14·1	14	10 8	7 9	161
16 2	13	8 2	2 2	169
18 0	13	6·7	1 5	193
21·0	5	6·6	4 9	135
24 0	4	15 5	4 3	149
27 0	1	9·0	9 0	220
30·0	1	4 0	4 0	175
33 0	1	4 0	4·0	056
36 0	1	14 0	14·0	045
		1730 hr.*		
10·5	28	9·0	4·6	247
12 0	27	11·4	6 7	216

Ht in Km.	n	V	v	D
		1730 hr *		
14 1	19	14 8	10 5	170
16 2	10	10 9	6 8	154
		SRINAGAR		
		0530 hr *		
10 5	16	29 9	28 4	266
12 0	15	38 3	36 9	274
14 1	3	35 0	34 7	275
16 2	1	40 0	40 0	266
		1730 hr.*		
10 5	17	28 1	26 5	275
12 0	14	32 9	30 9	283
14 1	7	39·3	38 6	292
16 2	1	41 0	41 0	255
		TIRUCHCHIRAP-PALLI		
		0530 hr		
10 5	4	10 5	2 9	340
		1730 hr		
10 5	1	4 0	4·0	070
		TRIVANDRUM		
		0530 hr.*		
10 5	25	8 5	3 7	081
12·0	25	11·4	9 5	137
14 1	23	16 3	14 6	139
16 2	18	7·8	4 5	068
18 0	14	8·3	6·1	291
21 0	6	7 8	6 5	244
24 0	3	9 0	7 7	096
		1130 hr.		
10·5	5	13 8	4 5	068
12·0	5	13·2	4 8	112
14 1	5	9·6	5 7	143
16 2	4	9 7	7 1	039
18 0	2	8·5	5·3	051
21 0	1	5 0	5 0	315
24 0	1	7 0	7 0	110

Ht in Km.	n	V	v	D
		1730 hr.*		
10 5	26	8 3	3 6	124
12 0	25	11 9	10 4	148
14 1	23	16 6	15 4	137
16 2	17	7·5	4 2	089
18 0	15	8 1	1 9	198
21 0	5	14 0	11 4	254
		UDAIPUR		
		0530 hr		
10 5	3	36 3	36 1	301
		1730 hr.		
10 5	1	29 0	29 0	295
		VERAVAL		
		1730 hr		
10 5	3	34·7	34 1	300
12 0	2	25·0	24·6	282
		VIJAYAWADA/ GANNAVARAM		
		0530 hr		
10·5	12	22 3	18·7	273
12·0	11	22 6	19 4	253
14·1	3	16 7	15·4	253
16·2	1	13 0	13 0	225
18 0	1	6 0	6·0	240
21 0	1	2 0	2·0	140
		1730 hr.		
10·5	6	22 0	20 8	263
12 0	4	20·0	19 3	266
		VISHAKHAPATNAM		
		0530 hr *		
10·5	27	33·6	29·3	273
12 0	26	35·3	31·8	267
14·1	9	30·7	27·0	237
16 2	5	29 8	23 4	256
18·0	2	18 0	17 9	231

Ht. in Km.	n	V	v	D
		1130 hr		
10 5	4	21 7	16 4	278
12 0	3	24 0	21 1	274
14 1	1	5 0	5·0	170
16 2	1	2·0	2 0	210
18 0	1	4·0	4·0	030
21 0	1	7 0	7 0	025
24 0	1	6 0	6 0	045
		1730 hr *		
10·5	22	31 5	28 1	271
12 0	20	35 9	32 3	265
14 1	9	35 6	31 8	265
16 2	1	18·0	18 0	300
18 0	1	18·0	18 0	300

RADIOSONDE DATA

During the month, observations of upper air temperature, pressure and humidity were made at 15 stations in India as given in the list below. For detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

Serial No.	Name of Station	Type of instrument used	Date of starting	Hours of routine observations in GMT during the month	Remarks
1	Ahmadabad	Fan type	20th July, 1961	00 and 12	
2	Allahabad/Bamhrauli	Clock type	1st October, 1944	00 and 12	
3	Bangalore	Fan type	10th March, 1961	00 and 12	
4	Bombay/Santa Cruz	Clock type	7th September, 1954	00 and 12	
5	Calcutta/Dum Dum	Clock type	13th December, 1946	00 and 12	Fan type used from 13-12-46 to 30-11-47.
6	Gauhati	Clock type	22nd July, 1955	00 and 12	
7	Jodhpur	Clock type	17th April, 1946	00 and 12	
8	Madras/Minambakkam	Fan type	29th June, 1946	00 and 12	
9	Minicoy	Fan type	12th May, 1963	12	
10	Nagpur/Sonegaon	Fan type	1st October, 1946	00 and 12	
11	New Delhi /Safdarjung	Clock type	3rd December, 1943	00 and 12	
12	Port Blair	Fan type	4th December, 1949	00 and 12	
13	Srinagar	Clock type	1st August, 1962	00 and 12	
14	Trivandrum	Fan type	1st July, 1947	00 and 12	
15	Vishakhapatnam	Fan type	8th December, 1946	00 and 12	

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 00 hr G.M.T.

February, 1965 (Magha 12—Phalguna 9, 1886 Saka)

Standard Pressure Surface mb	AHMADABAD Surf Pr (1005 mb.)						ALLAHABAD/BAMHRAULI (1000 mb)						BANGALORE (910 mb.)					
	No. of obs	Ht gpm	Temperature °A				No of obs	Ht gpm	Temperature °A				No of obs	Ht gpm	Temperature °A			
			Mean	Max	Min	Dew point			Mean	Max	Min	Dew point			Mean	Max	Min	Dew point
Surface	28	055	289 4	294	286	281 1	28	098	286 0	291	281	280 6	28	921	289 7	292	287	286 7
1000	28	096	290 3	295	286	280 1	28	101	285 1	291	283	278 3	28	113			..	..
900	28	1007	291 9	297	289	273 8	28	997	288 3	296	283	273 7	28	1016	290 0	292	287	285 1
850	28	1495	288 5	294	285	271 0	28	1478	285 2	292	282	270 3	28	1506	289 7	293	286	279 7
800	28	2006	284 6	288	280	268 2	28	1983	281 7	287	278	268 2	28	2021	286 9	291	283	278 4
700	28	3109	277 8	281	269	258 5	28	3074	274·0	278	269	261 5	28	3134	280 4	283	277	270 3
600	28	4351	270 9	275	267		27	4290	265 8	270	260		28	4395	275 6	278	273	260 2
500	28	5776	261 6	266	258		27	5692	257 1	264	253		28	5849	266 9	271	264	
400	28	7454	251 1	258	245	.	27	7341	245 8	253	240		27	7562	255 8	259	252	..
300	28	9523	239 2	244	232		27	9367	234 7	243	227		27	9657	241 0	245	237	..
250	26	10779	231 6	237	225		27	10607	229 3	237	220		27	10921	231 6	238	227	..
200	26	12266	222 0	225	216		27	12081	221 1	228	214		26	12397	219 5	224	213	..
175	25	13118	216 4	221	209		25	12944	216 6	221	209		22	13257	213 9	218	209	..
150	25	14081	210 6	216	203		23	13904	211 4	217	204		22	14204	207 9	215	204	.
125	22	15187	204 6	210	197		19	15042	206 4	214	201		20	15290	202 3	213	199	.
100	20	16509	200 1	206	193		16	16348	201 4	205	197		20	16607	196 9	204	193	..
80	17	17835	199 6	206	191	.	10	17653	200 7	204	196		16	17909	197 7	205	191	..
70	15	18630	202 7	208	197		9	18413	201 8	206	197		16	18690	199 7	207	191	..
60	13	19560	207 8	215	199		6	19338	203 2	209	199		16	19545	203 2	200	196	..
50	10	20671	212 2	223	204	..							14	20663	207 1	211	199	.
40			.					.		.			9	21998	210·4	216	202	..
30		.		.	..	.		.	..	..	..		6	23769	214 1	220	208	..
20	.	.	.		.		.	.	.	.	.	.			.	.	..	.
10		.	.	..	.	.			.	.	.	..	..			..	..	..

	BOMBAY/SANTA CRUZ (1008 mb)						CALCUTTA/DUM DUM (1011 mb)						GAUHATI (1007 mb)					
Surface	28	013	292 0	297	289	287 4	28	006	288 7	295	285	287 3	28	049	287·3	291	284	285·4
1000	28	088	294 2	297	291	287 0	28	102	290 2	295	287	285 3	28	107	287·8	291	285	284 5
900	28	1005	294 3	298	288	281 7	28	1008	289·1	295	285	278 9	28	1002	287 6	290	284	278·1
850	28	1501	291 0	295	286	279 5	28	1492	286 0	291	281	276 6	28	1483	284 3	288	281	276 0
800	28	2018	287 0	290	282	277·7	28	2000	282·6	287	278	273 4	28	1987	280·9	285	277	271 9
700	28	3131	279·6	283	275	272 1	28	3099	276·6	281	271	262 1	28	3077	274·3	279	270	262·4
600	28	4386	273·1	276	268	263 7	28	4335	269·4	273	267	.	28	4302	267·6	272	264	.
500	28	5824	265 1	269	260	.	28	5758	261·9	268	257		26	5718	259 3	264	253	..
400	28	7527	254 5	262	249		28	7432	251 1	256	245		24	7375	248 8	255	242	..
300	28	9611	240·8	245	237		28	9505	240 4	245	231		23	9421	237 8	245	228	..
250	28	10868	230·2	236	226		28	10771	233 0	239	226		23	10676	232 2	238	223	..
200	28	12339	219 1	225	213	.	26	12267	223 8	229	219		23	12169	224 3	231	219	..
175	22	13192	211 9	218	203	..	25	13132	218 4	224	213		18	13050	220 1	227	215	..
150	21	14146	206 7	213	199		25	14108	212 9	219	207	.	15	14039	215 1	222	207	..
125	21	15328	201 0	208	194		25	15240	207 4	217	200		10	15160	211 0	217	202	..
100	18	16525	197·4	203	189		25	16576	202 6	210	195	.	7	16491	205 9	213	199	.
80	13	17818	200·2	212	188	.	22	17905	202 5	215	193		..				..	..
70	8	18656	206·2	215	197		20	18690	203 5	211	192	.	..	.	..	..	..	..
60	5	19631	203·4	213	193	.	14	19639	207 4	217	197	.	..	..		.	..	..
50	5	20795	211·4	214	205	..	10	20724	212 8	223	205		.	..	..		..	..
40	..	..	..	..	..	..	6	22218	217 8	225	211	..	..	..		..	..	.
30	..	..	..	.. ..	..	..	..	..	..	.	..	..	..	..	. ..	..	..	..
20	..	..	..	..	..	..	..	.	..	..	..	.. ..	..	..	.. ..	.. ..	..	..
10	..	..	..	..	..	..	..	..	.. .	..	..	.. ..	.	.		..		

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 00 hr. G.M.T

February, 1965 (Magha 12—Phalguna 9, 1886 Saka)

Standard Pressure Surface mb	JODHPUR Surf Pr. (987 mb)						MADRAS/MINAMBAKKAM (1009 mb)						NAGPUR/SONEGAON (976 mb)					
	No of obs.	Ht gpm.	Temperature °A				No of obs	Ht gpm	Temperature °A				No of obs	Ht gpm	Temperature °A			
			Mean	Max.	Min	Dew point			Mean	Max	Min	Dew point			Mean	Max	Min	Dew point
Surface	28	218	287 0	291	281	276 4	28	015	295 3	298	293	293 9	28	311	288 8	293	285	279 9
1000	28	107					28	096	295 7	298	294	293 3	28	101		..		..
900	28	1002	289 5	295	285	272 4	28	1012	292 8	297	288	283 8	28	1004	292 7	295	289	280 4
850	28	1484	286 1	291	280	270 2	28	1503	290 5	297	287	280 5	28	1493	289 3	292	285	278 9
800	28	1990	282 4	288	277	268 2	28	2019	286 6	289	283	277 5	28	2006	285 3	287	282	276 7
700	28	3079	274 4	278	266	261 3	28	3131	281 0	284	277	267 0	28	3112	277 4	281	273	269 8
600	27	4301	266 8	272	261	.	28	4390	275 0	279	271	261 2	28	4353	271 2	275	266	260 8
500	25	5695	257 1	262	248	..	28	5839	266 5	270	262		28	5781	262 6	267	256	..
400	19	7361	246 9	253	241		28	7544	255 3	260	251		28	7462	252 2	257	247	..
300	12	9409	235 1	245	227	.	28	9640	240 3	246	233		28	9543	240 4	247	235	.
250	8	10643	228 3	235	224	..	28	10901	230 5	238	224		28	10805	231 7	238	225	.
200	7	12142	222 4	227	217	.	28	12369	217 7	223	212		28	12282	219 8	228	213	
175	5	12995	221 2	225	219		27	13209	212 0	218	206		24	13130	214 1	221	209	.
150	.	..	..			.	25	14162	205 6	211	198		24	14087	208 2	215	202	
125		.	..	..			24	15239	200 4	205	197		24	15196	198 9	211	198	.
100	.	.		.		.	24	16553	195 3	201	190	.	22	16498	198 0	204	189	
80			.	..			17	17855	197 7	204	190		18	17823	198 6	208	195	
70	.	..		.	.		15	18648	200 5	207	192		15	18597	201 5	207	196	
60	.	.	.	.		.	12	19536	202 8	209	198	.	15	19323	205 6	215	200	.
50	..	..	.	.			12	20628	206 8	216	203	..	13	20613	209 8	218	205	..
40	.	..	.	..			9	21995	212 4	219	207		10	21963	213 6	219	209	.
30	..	..										.	7	23741	216·7	223	211	.
20	.	..	..	..	.	..				..		..	..	..	.	.	..	.
10	..	..	.	.		.						.		..	.	.	..	.

	NEW DELHI/SAFDARJUNG (988 mb)						PORT BLAIR (1001 mb)						SRINAGAR (842 mb)					
Surface	28	209	285·4	289	282	279 5	28	079	296 2	300	293	294 6	20	1588	273 7	275	271	273·1
1000	28	106	.	.	.		28	850	296 4	300	293	294 6	20	180	.		..	..
900	28	995	286 8	296	280	269 6	28	1000	293 6	296	289	285 8	20	1045	.	.		
850	28	1475	284 3	292	279	265 7	28	1492	291 1	295	287	282 7	20	1508	.	.	.	..
800	28	1979	280 8	288	277	264 0	28	2008	287 6	292	282	281 6	20	1994	271 1	274	269	..
700	28	3068	273 5	279	268	258 8	28	3123	281 3	284	275	272 1	20	3044	265 9	271	262	..
600	28	4286	265 2	270	261		28	4382	274 1	277	268	265 3	19	4226	259 7	263	256	.
500	28	5680	255 7	263	250		28	5828	266 2	271	259		19	5590	250 9	255	246	..
400	28	7317	244 5	251	239	..	28	7538	256 4	262	249		18	7213	239 7	245	235	..
300	28	9326	232·4	243	225		28	9635	241 4	247	235		18	9173	225 4	238	218	..
250	28	10555	227 4	236	220		28	10901	232 0	237	224		17	10366	221 0	230	210	.
200	28	12029	223 4	230	217	..	28	12380	220 5	228	213	.	16	11800	220 4	229	211	..
175	28	12898	220 3	226	215	.	21	13222	214 3	218	207	.	13	12669	220 5	227	212	..
150	27	13881	216 3	221	211	..	20	14196	207 7	212	199	.	13	13661	219 1	223	211	..
125	26	15014	212 3	218	206	.	14	15290	201 9	207	193	..	11	14828	218 2	223	211	..
100	24	16396	209 1	214	199	..	11	16611	198 1	203	193	..	8	16220	215 6	220	210	..
80	21	17750	209 4	215	203	..	9	17905	198 6	203	198	..	5	17611	217 0	220	213	..
70	21	18573	209 7	215	202	..	8	18661	199 3	203	195	..	5	18453	217 2	220	213	.
60	19	19527	212 1	217	204	..	6	19538	201 8	206	197	..	.	..	..	..	..	..
50	17	20674	215 9	221	210	..	5	20627	206 6	213	199	..	..	..	.	..	..	..
40	12	22161	219 0	223	214	..	..	..	..	.	..	..	.	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 hr. G. M T.

February, 1965 (Magha 12—Phalguna 9, 1886 Saka)

Standard Pressure Suiface mb	TRIVANDRUM Surf Pr (1002 mb)						VISHAKHAPATNAM (1007 mb)					
	No. of obs.	Ht gpm	Temperature °A				No of obs	Ht gpm	Temperature °A			
			Mean	Max	Min.	Dew Point			Mean	Max	Min	Dew Point
Surface	28	064	297 3	300	293	293 5	28	041	295 5	298	291	292 9
1000	28	079	297 5	299	294	293 3	28	102	295 7	297	293	292 3
900	28	999	292 7	295	291	286 4	28	1019	292 5	295	289	283 8
850	28	1491	290 1	291	288	282 2	28	1508	289 6	293	285	280 2
800	28	2007	287 6	290	285	278 6	28	2022	285 9	291	281	276 5
700	28	3125	281 0	285	271	273 7	28	3132	279 5	285	276	266 2
600	28	4385	274 2	278	269	265 6	28	4385	273 9	281	270	257 2
500	28	5834	266 8	270	263		28	5828	265 4	273	259	
400	28	7546	256 1	261	251		28	7531	255 3	262	251	
300	27	9646	241 4	255	237		28	9630	241 3	247	235	
250	27	10907	230 6	235	225		28	10896	231 9	236	227	
200	27	12378	218·4	225	213	..	27	12366	219 0	224	214	.
175	25	13202	211 7	219	205	..	25	13211	213 0	218	209	
150	24	14166	205 0	213	198		24	14164	206 8	213	199	.
125	22	15227	199 0	207	194	.	23	15243	201 3	208	195	
100	21	16531	195 7	204	191		22	16559	197 1	202	195	
80	17	17791	197 3	201	193		19	17870	197·4	203	192	
70	13	18599	200 7	207	196		18	18653	200 4	206	194	
60	12	19505	203 7	211	200	.	15	19573	204 1	215	197	..
50	12	20560	207 2	215	202		14	20659	208 6	219	204	.
40	6	22007	210 7	216	206		6	21983	212 3	219	203	
30												.
20												
10												

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 12 hr. G M T.

February, 1965 (Magha 12—Phalguna 9, 1886 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf Pr. (1004 mb)						ALLAHABAD/BAMHRAULI (999 mb.)						BANGALORE (908 mb)					
	No. of obs.	Ht gpm	Temperature °A				No. of obs	Ht. gpm	Temperature °A				No. of obs.	Ht gpm.	Temperature °A.			
			Mean	Max.	Min.	Dew point			Mean	Max	Min	Dew point			Mean	Max	Min.	Dew point
Surface	28	055	303·8	307	300	282 9	28	098	299 7	303	293	282 3	28	921	300 1	303	297	285 2
1000	28	089	303 7	307	300	282 5	28	092	298 4	303	293	281 4	28	068				
900	28	1015	294·9	301	292	275 8	28	1008	291 8	297	286	272 4	28	1003	299 1	301	296	284 7
850	28	1508	289·7	295	286	272 8	28	1494	287 9	293	283	268·1	28	1503	294 7	299	291	283 4
800	28	2020	285 5	291	281	269 2	28	2003	284 1	289	279	264 2	28	2025	290 0	293	286	281 2
700	28	3125	278 3	283	273	256 6	28	3100	276 3	281	273	258 3	28	3146	281 2	285	277	272 9
600	28	4369	271 1	275	265		28	4331	268 3	276	263		28	4405	275 1	278	269	265 1
500	27	5788	262 1	267	257		28	5739	258 4	265	255		28	5854	266 9	269	261	
400	27	7468	251 8	258	245		28	7387	247 4	253	239		28	7567	255 7	260	249	.
300	25	9539	238·9	244	234		27	9433	236·2	243	228		28	9665	241 0	246	236	.
250	25	10793	231·8	237	227		27	10683	230·0	236	221		28	10929	231 8	237	226	
200	25	12275	221 7	230	217		26	12167	221 7	228	213		28	12411	220 5	227	214	
175	23	13129	215·9	222	212		24	13039	217 7	224	210		23	13270	214 2	219	204	
150	18	14081	209 8	218	203		17	14004	213 3	221	207		23	14229	208 5	213	201	
125	17	15187	204·5	213	199		13	15154	210 2	216	206		19	15327	203 2	211	196	..
100	14	16496	200 8	209	195		6	16430	203 3	205	202		18	16643	197 1	206	188	
80	14	17805	200 7	209	193		5	17757	203 0	206	201		13	17969	198 9	205	191	.
70	13	18609	204 5	217	195			.					12	18748	200 8	207	192	..
60	11	19528	208 9	221	201								9	19654	203 5	209	200	..
50	6	20646	213 5	219	207								9	20719	206 5	211	203	..
40	..	..	..					.		.	.	.	5	22081	211 0	213	208	..
30	..		..			.		..		.	.		5	23876	217 2	220	212	..
20	..	..	..	.	.			.	..			.		..			..	..
10	..	..	..						..	.	.					.		.

	BOMBAY/SANTA CRUZ (1008 mb)						CALCUTTA/DUM DUM (1009 mb)						GAUHATI (1004 mb)					
Surface	28	013	301 7	305	298	289 5	28	06	299 3	302	293	289 4	28	049	295 0	299	290	287 6
1000	28	083	301 1	305	297	288 7	28	089	299 4	302	293	287 8	26	085	295 4	299	290	287 0
900	28	1008	295·6	300	291	280 7	28	1012	293 6	297	291	281 3	26	993	289 8	295	284	277 7
850	28	1503	292 2	296	287	277 6	28	1503	289 8	292	286	277 9	26	1478	286 3	291	281	273 9
800	28	2021	287 8	291	284	275 7	28	2017	286 0	290	282	273 6	26	1985	282 7	286	279	270 6
700	28	3135	280 4	286	275	268 9	28	3128	279 3	284	274	263 7	26	3077	274·9	279	269	259 8
600	28	4389	273 8	279	268	262 5	28	4376	272 5	278	267	.	25	4305	267 5	273	263	..
500	28	5829	264 8	268	258		27	5813	263 7	269	258		24	5713	259 3	264	253	..
400	28	7530	254 6	260	247		27	7508	253 8	259	245		23	7380	248 8	254	244	..
300	28	9621	240 9	245	234		27	9603	243 2	249	236		23	9429	238 1	247	230	..
250	28	10889	231 6	237	229		27	10883	234 8	241	228		22	10690	231 9	239	221	..
200	28	12363	219 8	223	214	.	27	12388	224 6	231	220		21	12186	224 7	234	219	..
175	25	13218	213 3	218	206		27	13259	219 5	227	211	..	18	13051	218 9	225	213	..
150	22	14156	206 7	211	198	..	26	14239	213 7	221	205		16	14008	213 3	219	205	..
125	20	15267	201 5	205	192	.	25	15374	208 1	217	201		12	15142	207 9	216	201	..
100	18	16547	200 2	206	195		24	16711	202 9	212	194		8	16491	205 0	209	198	..
80	11	17870	206 2	217	199	..	20	18035	202 6	215	194			.	.		..	..
70	10	18685	208 8	220	199	.	17	18820	203 3	215	195	..				.	..	..
60	6	19643	211 8	222	203	..	10	19745	208 7	218	199	.					..	..
50	5	20750	214 4	218	211		9	20913	214 4	223	205	.				.	..	..
40	..		.	..	..	..	5	22312	216 6	221	212	..		..	.	..	..	..
30	..	.	..	..	.	..	..	..	..	..	.	.	..	..	..	..	..	..
20	..	..	..	..	..	..	.	..	..	..	.	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 12 hr. G. M. T.

February, 1965 (Magha 12—Phalguna 9, 1886 Saka)

Standard Pressure Surface mb.	JODHPUR Surf Pr (986 mb)						MADRAS/MINAMBAKKAM (1008 mb)						MINICOY (1009 mb)					
	No. of obs	Ht gpm	Temperature °A				No of obs	Ht gpm	Temperature °A				No of obs	Ht gpm	Temperature °A			
			Mean	Max	Min	Dew point			Mean	Max	Min	Dew point			Mean	Max	Min	Dew point
Surface	28	218	300 1	300	290	277 4	28	015	300·7	303	299	294 0	28	002	300·7	301	299	294 6
1000	28	093		.	..		28	086	299·9	302	297	293 5	28	080	299 7	301	299	294 5
900	28	1010	292 9	299	285	272 2	28	1008	294 2	298	290	284 0	28	1002	292 4	296	289	287 1
850	28	1498	288 5	295	281	267 8	28	1501	291 3	295	287	280 9	28	1492	289 9	293	287	282 8
800	28	2006	283·9	291	276	267 8	28	2019	287 5	292	285	278 8	28	2007	287 5	290	283	277 8
700	28	3100	275 8	281	270	261 9	28	3135	281 7	284	278	268·6	28	3125	282 4	285	279	269 0
600	28	4331	268 2	275	262		28	4396	275·4	279	272	261 6	28	4388	275 5	272	271	261 5
500	28	5742	259 5	268	253		28	5847	267 1	271	263		28	5838	267 0	272	265	
400	26	7407	248 9	256	242		28	7563	256 9	261	249		28	7549	256 6	262	252	.
300	11	9465	238 3	243	235		28	9665	241 0	248	234		27	9644	241 1	245	235	
250	7	10745	231 4	238	228		27	10925	230·9	236	226		27	10904	230 9	236	226	
200						.	27	12397	218 4	225	213		27	12373	218 7	223	211	
175	.						25	13241	212 4	219	207		27	13207	211 7	219	205	..
150		.				..	25	14190	206·2	211	201		26	14159	205·5	211	199	.
125	.	.					25	15264	200 8	209	194		25	15224	199·5	206	191	
100			.				25	16573	195 8	202	188		24	16538	196·2	202	192	
80						.	21	17846	198·0	204	191		22	17824	197·0	202	191	
70		..	.		.		20	18651	200 8	209	191		22	18609	199·8	211	193	
60		.					16	19546	203 4	210	195		20	19511	201 5	210	197	
50		.		.		.	13	20639	208 1	212	201		19	20590	204 3	211	199	
40	..	..		.		.	9	21978	210 2	216	205		9	21920	206·2	202	201	.
30	.	..	..	..	..	.	.	..		..	..		.	.	..	..	.	..
20	..	.	.	.	.			.		..	.	.	.	.	..	.	..	.
10	..	..		..			.	..		..	..				.	.		.

	NAGPUR SONEGAON (974 mb)						NEW DELH/ISAFDARJUNG (987 mb)						PORT BLAIR (1000 mb)					
Surface	28	311	302 9	306	299	281 9	28	209	295 5	299	291	280 3	28	079	300·3	302	298	295 4
1000	28	076			.		28	096					28	078	299·9	302	298	295 4
900	28	1006	295 8	299	293	282 9	28	1001	289 2	294	285	272 5	28	999	293 8	297	291	287 4
850	28	1500	291 1	296	287	281 0	28	1483	285 7	291	281	267 1	28	1491	291 0	295	281	283 6
800	28	2016	286 4	293	281	279 1	28	1988	281 9	288	277	261 6	28	2008	288 2	292	283	281 9
700	28	3125	277 3	285	273	270 9	28	3078	274 2	280	269	260 5	28	3127	281 7	285	277	272 4
600	28	4367	270 7	275	267	264 0	28	4298	265 9	271	261	.	28	4386	274 6	279	268	263 5
500	27	5788	262 2	269	258	.	28	5693	256 1	263	251		28	5834	266 1	271	264	.
400	27	7467	251 4	259	245		28	7329	244 4	251	240		28	7543	255 5	261	244	..
300	27	9536	239 2	244	233		28	9337	231 6	242	224	.	28	9642	241 2	246	237	.
250	27	10792	231 1	235	225	..	28	10561	226 9	237	216		28	10907	232 3	247	228	
200	27	12266	219 7	225	213	.	28	12032	222 9	231	217	..	28	12389	220 0	230	216	..
175	27	13112	213 6	219	209	.	27	12902	219 6	227	214		24	13236	214 1	225	208	.
150	26	14071	207 7	21	203	.	26	13886	216 0	223	210		21	14199	207 6	219	199	.
125	25	15169	202·6	20	198	.	26	15030	212 3	219	205		15	15313	202 3	213	196	
100	23	16475	199 3	20	195		26	16407	209 0	216	203		14	16618	197 1	206	192	.
80	18	17804	199 9	20	193	.	25	17774	208 5	215	201		7	17894	199 1	208	192	.
70	17	18592	201 3	21	193		24	18597	211 1	219	206	.	7	18673	200 4	211	196	.
60	11	19474	205 5	21	199		20	19530	212 5	218	203	.		..	.	..	.	.
50	10	20524	209 4	21	203		16	20639	216 2	221	211			..	..		..	..
40	6	21985	212 7	21	208	.	12	22103	218 8	226	214		.	.			.	.
30	.	..				.	11	23984	222 2	228	219	.	..	.	.	.	..	.
20	.	..	..	..	.	..	..			..	.	.	..	..	.		.	..
10	.	..	..	.	.	..	.	..	..	.	..		..	.			..	..

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 12 hr. G.M T

February, 1965 (Magha 12—Phalguna 10, 1886 Saka)

Standard Pressure Surface mb.	SRINAGAR Surf Pr (840 mb.)						TRIVANDRUM (1000 mb)						VISHAKHAPATNAM (1006 mb)					
	No of obs.	Ht. gpm.	Temperature °A				No of obs	Ht gpm	Temperature °A				No of obs	Ht gpm	Temperature °A			
			Mean	Max	Min.	Dew point			Mean	Max	Min	Dew point			Mean	Max	Min.	Dew point
Surface	22	1588	278 2	282	274	274 9	28	064	302 5	304	301	294 7	28	041	300 2	302	299	293 7
1000	21	146					28	073	302 2	303	301	294 4	28	092	299 4	301	298	292 6
900	22	1022		.			28	994	294 5	297	293	287 7	28	1015	293 8	297	290	282 8
850	22	1491					28	1488	291 3	295	289	284 3	28	1506	290 2	294	289	280·9
800	22	1983	273 7	277	269	271 4	28	2006	287 6	291	283	280 8	28	2021	286 6	290	283	278 4
700	22	3041	267 4	272	263	.	28	3126	283 0	285	280	271 5	28	3132	279 1	283	276	271 1
600	22	4234	259 1	264	250	.	28	4390	276 0	281	271	264 3	28	4383	272 6	277	268	260 9
500	22	5596	250 1	255	246	.	28	5846	268 3	273	266		28	5823	264 9	268	261	.
400	22	7197	238 9	247	232		28	7566	256 9	261	254		28	7523	254 1	257	248	..
300	21	9146	224 7	229	221		26	9667	241 4	247	236		28	9615	240·7	247	237	..
250	20	10329	218 7	227	211	.	26	10930	231 1	236	226		27	10883	232 0	239	229	..
200	20	11756	219 7	231	209	..	25	12403	218 6	226	213		27	12363	220 1	227	217	..
175	19	12621	219 8	228	212	.	24	13245	212 7	221	207	.	26	13211	214 3	221	210	.
150	17	13624	218 3	225	210		24	14198	206 7	217	199		22	14163	208 1	212	203	.
125	16	14772	217 4	223	207		21	15286	200 7	210	193		19	15244	202·3	207	199	..
100	14	16189	216 5	221	210	.	19	16602	197 5	207	192	.	19	16563	197 6	201	194	..
80	13	17599	216 1	221	208		17	17904	199 6	209	191		16	17854	198 3	202	194	
70	12	18430	216 3	222	207		14	18777	202 6	212	196		16	18639	201 1	205	197	..
60	8	19351	215 9	221	209	.	11	19659	206 3	215	199	.	13	19546	204 8	207	202	..
50	8	20511	217.4	225	212		9	20800	210 8	218	202	.	13	20652	209 8	213	205	
40													6	22059	213 5	215	211	
30																		
20																		
10																		

Note : Number of observations refer to those of dynamic height

Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273°A

Means are not worked out for less than five observations at standard pressure surfaces.

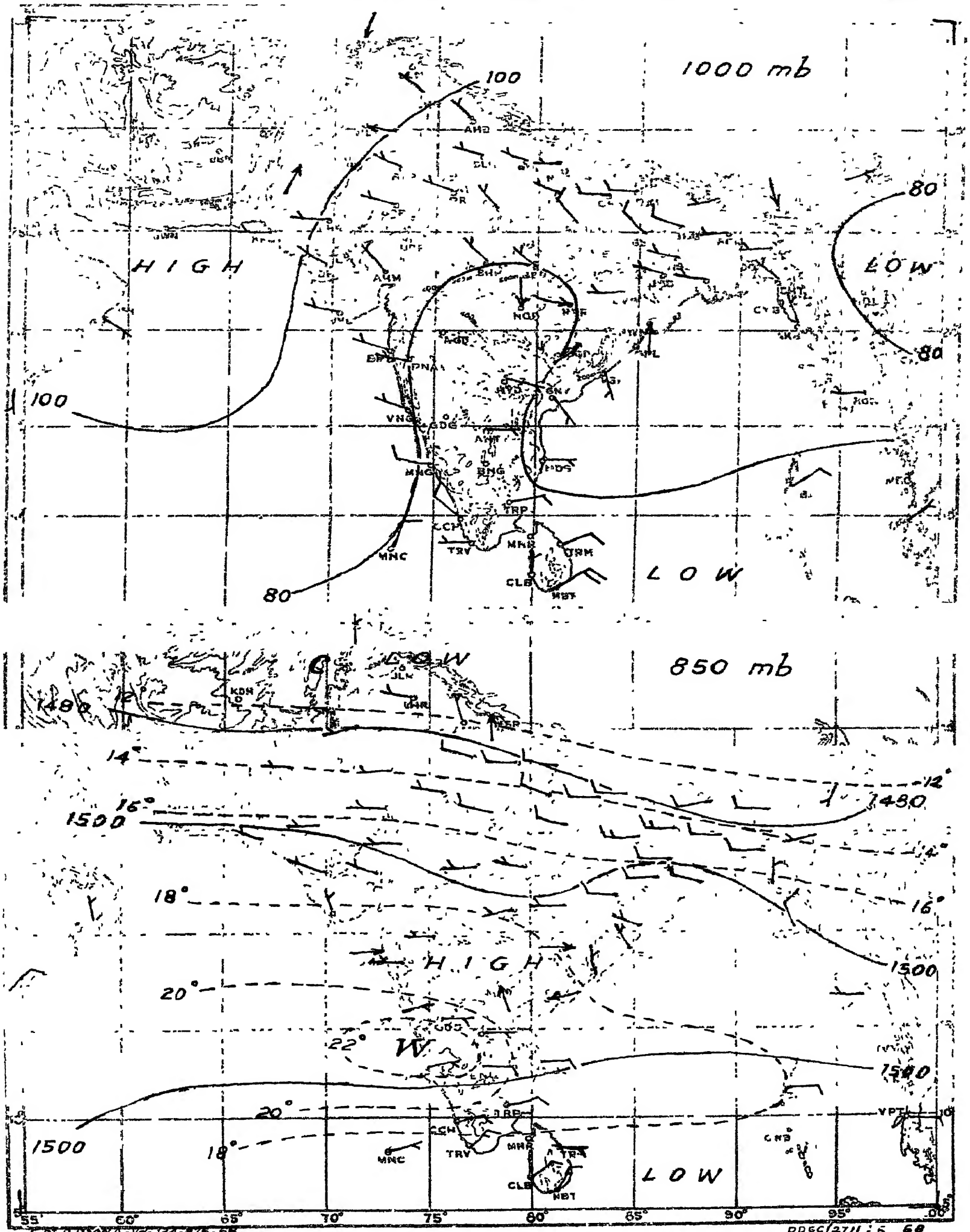
GIPN—S 7—5 D,D,G, Obs, P,/68—21-1-69—260,

MONTHLY MEAN CONSTANT PRESSURE CHARTS

FEBRUARY 1965

U.S.A.

Plate I



RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots

---------- Isotherms in degrees centigrade ———— Contours in geopotential metres.

G P Z P. POONA - Vol-124-275-66

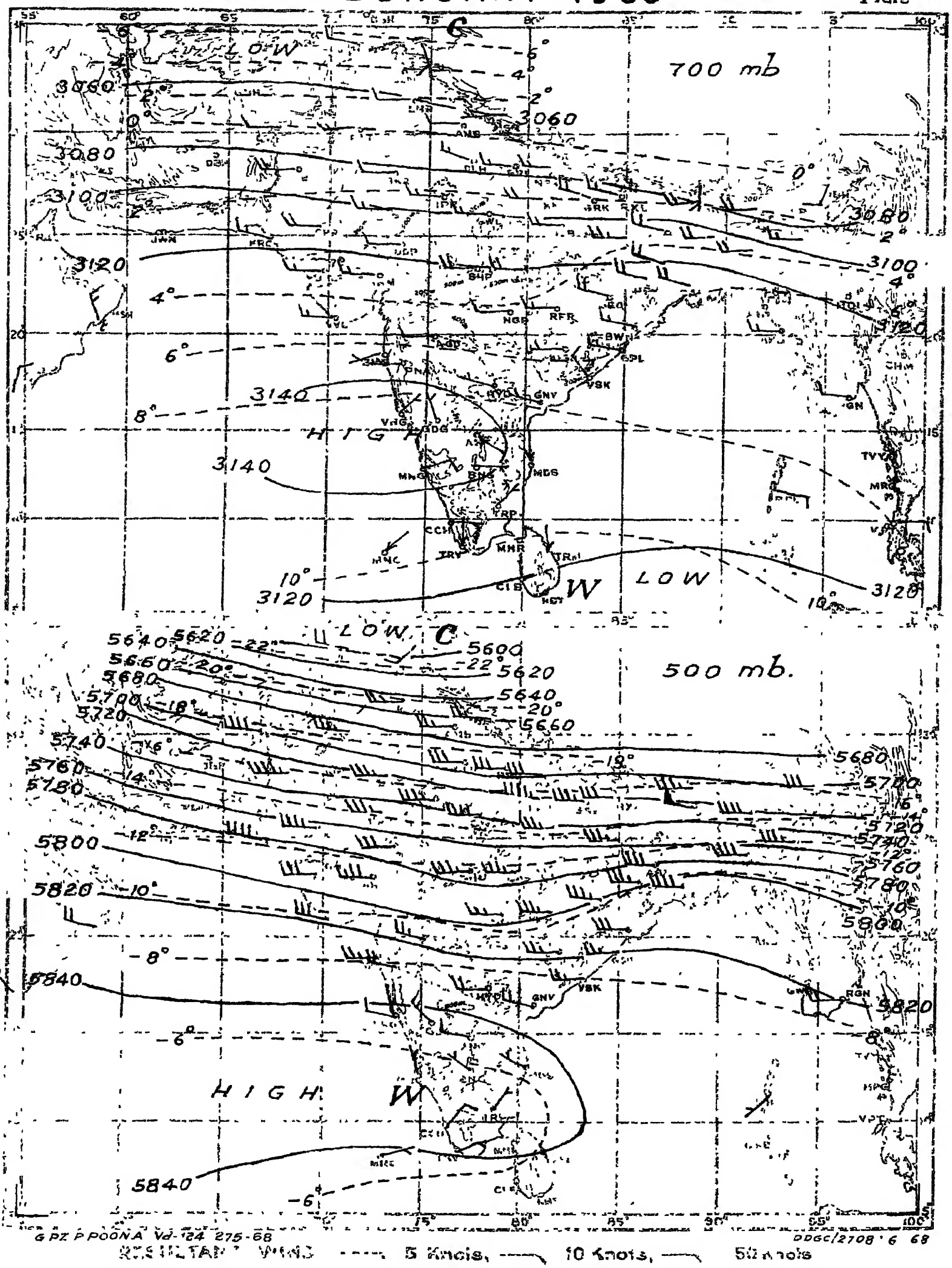
DDGC/2711 : 5 66

G P Z P. POONA, 1966

MONTHLY MEAN CONSTANT PRESSURE CHARTS

FEBRUARY 1965

Plate II



Registered No. MH-75

INDIA WEATHER REVIEW, 1965

Monthly Weather Report

MARCH

Published by authority of the Government of India

Chief features :

(i) Movement of six western disturbances across north India;

(ii) Fairly good precipitation over most parts of north and central India during the second fortnight.

(iii) A spell of unusually cold weather over the country outside the south Peninsula during the second fortnight.

Six western disturbances moved eastwards across north India during the month. Of these, five disturbances affecting northwest India during the second fortnight caused good precipitation there. The first disturbance moving from West Pakistan across Western Himalayas during the early part of the second week caused a number of showers in the Western Himalayas and the adjoining plains. The second disturbance was quite active on 18th and 19th when it was over the Punjab. Bareilly recorded 10 cm of rain and Dharchulla, Chandigarh and Ambala 6 cm each on 20th The third disturbance was also fairly active Both these disturbances induced troughs of low pressure over east Madhya Pradesh on 20th and 23rd respectively which moved away across Assam by 22nd and 25th respectively In association with them, there was good thundershower activity over northeast India. The next two western disturbances were feeble and moved from west Pakistan to Assam. The last disturbance was fairly active and was lying over north Rajasthan and adjoining parts of West Pakistan and of the Punjab on 31st. The details of the movement and activity of the various disturbances are given in the accompanying statement.

The rainfall over the south Peninsula was scanty during the month. A trough in the low level easterlies which had appeared over the Andaman Sea towards the end of last month moved away slowly westwards across Maldive area by 6th. In association with it, thundershowers occurred at a few places in the south Peninsula during the period 3rd to 5th. Pamban and Coonoor recorded 3 cm of rain each on 3rd and 5th respectively. Mainly dry weather prevailed over the area thereafter. Two feeble lows moved westwards during the period 18th to 22nd causing a few showers in the extreme south Peninsula. During the last week also thunder showers occurred at a few places in the south Peninsula in association with a well marked upper wind discontinuity.

Weather over northeast India remained mainly dry during the first three weeks. However, a few light thundershowers occurred in Assam and Sub-Himalayan West Bengal during the first week due to the incursion of moist air from the Bay of Bengal. There was fairly good thundershower activity over the extreme northeast India in association with the two induced lows mentioned earlier. Some of the noteworthy amounts of rainfall recorded were : Bankura 7 cm, Malda 6 cm and Berhampore 5 cm on 24th, Sambalpur 6 cm on 30th and Titlagarh 6 cm on 31st.

Day temperatures were generally above normal over northwest India, Gujarat State and Uttar Pradesh during the first fortnight except from 6th to 11th when they were nearly normal. They were also above normal in the central parts of the country for a few days in the second week and over northeast India from 7th to 18th. A spell of unusually cool weather prevailed over the country outside the south Peninsula during the second fortnight with day temperatures remaining appreciably to markedly below normal over north and central India from 20th to 24th.

The total rainfall for the month was in large excess in West Bengal, Orissa, Bihar Plains, west Uttar Pradesh and east Madhya Pradesh, in moderate excess in Bihar Plateau and in slight excess in the Punjab. It was normal in east Uttar Pradesh, in slight defect in the Bay Islands, west Madhya Pradesh and south Interior Mysore and in moderate defect in Assam, Rajasthan, Vidarbha and Kerala. It was in large defect over the rest of the country outside Gujarat State, the Konkan, Rayalaseema and coastal Mysore where there was no rain.

1—6 D. D G. Obs (P)/68

The mean maximum temperature was above normal in the Bay Islands and below normal in south Assam and Gangetic West Bengal. It was normal over the rest of the country. The mean minimum temperature was below normal in Assam, Gangetic West Bengal, Orissa Bihar State, Uttar Pradesh, the Punjab and Jammu and Kashmir. It was normal over the rest of the country.

The mean relative humidity in the morning was above normal in Rayalaseema and below normal in the Bay Islands and Marathwada. It was normal over the rest of the country.

The mean cloud amount in the morning was above normal in Bihar State, east Uttar Pradesh east Madhya Pradesh, Madhya Maharashtra, Marathwada, Vidarbha and in north Interior Mysore and was below normal in north Assam, Rajasthan, Gujarat Region, the Konkan, Rayalaseema and coastal Mysore. It was normal over the rest of the country.

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud amount for the 15 chief political divisions and 32 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. I.S.T. of the date noted in the succeeding column; similarly the heaviest rainfall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. I.S.T. of the date given in the succeeding column.

POONA 5;
the 24th November, 1965

R. ANATHAKRISHNAN,
for *Director General of Observatories.*

NOTE : Description in respect of Himachal Pradesh is not included for want of normals.

STATEMENT SHOWING THE MOVEMENT AND ACTIVITY OF WESTERN DISTURBANCES DURING MARCH, 1965

No.	Period	Course	Regions affected	Nature of precipitation	Period	Remarks
1.	6th–9th	West Rajasthan and adjoining West Pakistan, the Punjab—the Western Himalayas.	Jammu and Kashmir.	Local rain.	8th, 9th and 10th	
			Himachal Pradesh.	Local rain.	8th.	
			The Punjab.	Scattered rain.	8th—10th.	
			West Uttar Pradesh.	Scattered rain.	8th.	
2.	16th–21st	West Pakistan—north Rajasthan—the Punjab-Western Himalayas.	Jammu and Kashmir.	Fairly widespread rain.	18th and 19th.	Active over the Punjab on 18th and 19th. Bareilly recorded 10 cm rain on 20th.
			Himachal Pradesh.	Fairly widespread rain.	19th and 20th.	
			The Punjab.	Scattered to fairly widespread rain.	18th, 19th, 20th and 21st.	
			Uttar Pradesh.	Scattered/local rain or snow.	18th, 19th, 20th and 21st.	An induced trough of low pressure formed over east Madhya Pradesh on 20th and moved away eastwards across Assam by 22nd.
3.	21st–24th	West Pakistan—Rajasthan—the Punjab—Western Himalayas.	West Rajasthan.	Scattered rain.	22nd and 23rd.	
			Jammu and Kashmir.	Scattered/fairly widespread rain.	22nd and 23rd.	
			Himachal Pradesh.	Local/fairly widespread rain.	22nd and 23rd.	
			The Punjab.	Scattered/local rain or snow.	22nd, 23rd and 24th.	An induced trough of low pressure formed over east Madhya Pradesh on 23rd and moved away northeastwards across north Assam by 25th.
			Uttar Pradesh.	Scattered/local rain or snow.	22nd, 23rd and 24th.	
4.	24th–29th	West Pakistan—Rajasthan—Uttar Pradesh—Assam.	Jammu and Kashmir.	Scattered rain.	25th.	
			West Uttar Pradesh.	Scattered rain.	26th.	
5.	27th–31st	West Pakistan and adjoining west Rajasthan—Uttar Pradesh—Assam.	Jammu and Kashmir.	Local rain.	27th.	Feeble.
			The Punjab.	Scattered rain.	27th.	
			West Uttar Pradesh.	Scattered rain or snow.	28th.	
6.	30th –	West Pakistan—north Rajasthan and adjoining West Pakistan and Punjab.	Rajasthan	Scattered rain.	30th and 31st.	Fairly active.
			The Punjab.	Local rain.	31st.	
			Uttar Pradesh.	Scattered rain.	30th and 31st.	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C.	Mean minimum temperature °C	Relative Humidity %		Cloud			Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %		Cloud	
					0830 hrs IST	1730 hrs. IST.	0830 hrs IST	1730 hrs IST.						0830 hrs. IST	1730 hrs. IST.	0830 hrs IST.	1730 hrs IST.
1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9
Division	52 1	65	28 7	13·6	68	51	2 6	3 1	**Division**	17 6	132	33·0	16 3	42	25	1 7	2 5
1. Assam (including NEFA, Nagaland, Manipur & Tripura)	—28 5		—0 1	—1 5	—3		—0 6		9. Madhya Pradesh .	+4 3		—0 6	—0·6	+2		+0·2	
2. West Bengal .	51·0	171	31 8	17·7	61	44	2 0	2 1	10 Gujarat State (including Diu, Daman Dadra and Nagar Haveli)	0	0	33 8	18 4	62	37	0 9	0·4
	+21·2		—1·0	—1 5	—1		—0 1			—1 4		—0 3	—0 5	+2		—0 2	
3. Orissa . .	46 6	188	33·3	19 8	64	52	1 8	2·4	11 Maharashtra State (including Goa) .	2 3	39	34 2	19 7	48	30	1 6	2 0
	+21 8		—0·7	—1 5	—2		—0 2			—3 6		—0 5	—0·2	—1		+0 3	
4. Bihar . .	21·7	147	31·8	14 9	50	36	1·8	1·9	12 Andhra Pradesh .	1 8	21	35 3	21·9	65	43	1·7	1 4
	+6 9		—0·7	—2·3	+1		+0 4			—6 9		—0·4	—0 5	0		—0 3	
5. Uttar Pradesh .	18 2	152	31 2	13 9	52	29	1 7	1·9	13 Madras State (including Pondicherry)	5·4	34	33 4	22 9	72	55	2 5	2·3
	+6 2		—0·5	—1·2	+2		+0·2			—10 5		—0 2	0	—3		—0·1	
6 Punjab (Including Delhi) & Himachal Pradesh* .	30.3	120	28 3	12 4	60	40	2 3	2 5	14. Mysore . .	4 3	51	34 0	20·5	63	35	1·4	2 5
	+5·1		—0·6	—1 2	+3		—0·1			—4·2		—0 3	—0 2	+2		—0 1	
7. Jammu and Kashmir. . . .	29.5	24	15·5	2·8	66	49	4 3	3·7	15. Kerala .	24 9	54	32 3	24 2	75	68	2·7	3 3
	—94·5		0	—1·2	+2		+0 2			—21 1		+0 2	—0 7	—1		0	
8. Rajasthan . .	4·4	68	32·2	15 4	42	22	1·1	1·7									
	—2·1		+0 3	—0·6	—1		—0·5										
Sub-Division																	
1. Bay Islands . .	21 4	75	31·9	22·0	65	71	3 1	3 9	17. Madhya Pradesh, East	30·5	156	33·0	16·8	47	29	2·0	2·9
	—7·1		+1·1	+0·1	—7		+0·2			+10·9		—0·5	—0 4	+1		+0 4	
2. North Assam (including NEFA	49·3	70	28 6	13·8	69	53	2·6	3 0	18. Gujarat Region (including Daman, Dadra and Nagar Haveli)	0	0	36·0	18 2	50	20	0·5	0·4
	—21 3		+0 4	—1·3	—3		—0 7			—1·1		—0·2	—0 3	—2		—0·5	
3. South Assam (including Nagaland, Manipur and Tripura).	57 7	57	28·7	13·3	65	45	2·5	3·3	19. Saurashtra and Kutch (including Diu)	0	0	32·5	18·5	69	47	1 2	0·5
	—42·9		—1·2	—2·1	—3		—0 3			—1·5		—0 3	—0·5	+4		—0 1	
4. Sub-Himalayan, West Bengal	51·0	161	30·2	15 0	58	38	2·0	1·8	20. Konkan . . (including Goa)	0	0	29 9	21·4	73	65	1·1	0·8
	+19 4		—0 6	—0·8	—1		+0 3			—0 6		—0·6	—0·4	+2		—0.4	
5. Gangetic, West Bengal.	51 0	175	32·3	18·6	62	46	2·0	2·2	21. Madhya Maharashtra	0·3	8	36·1	17·8	42	20	1·7	2·1
	+21·9		—1·1	—1·7	—1		—0·2			—3 3		—0·2	—0·3	0		+0·7	
6. Orissa . .	46·6	188	33·3	19·8	64	52	1·8	2·4	22. Marathwada .	0 7	11	36·0	20·1	27	15	1·4	2·1
	+21·8		—0·7	—1 5	—2		—0 2			—5·5		—0 2	+0 3	—9		—0 3	
7. Bihar Plateau .	31·9	142	31·9	14·8	50	33	2 0	2·3	23 Vidarbha .	7·5	53	35·5	20·2	37	17	2·0	2·6
	+9 5		—0·9	—2·8	+3		+0·5			—6·6		—0 7	—0 2	—4		+0·5	
8. Bihar Plains .	16·2	151	31·7	14·9	51	39	1·7	1·6	24. Coastal Andhra Pradesh	0·6	7	33·8	22·1	75	58	2·0	1·4
	+5·5		—0·6	—1·8	+1		+0 3			—8·6		—0 5	—0 8	0		—0·4	
9. Uttar Pradesh, East	9·7	103	31·9	14·5	50	28	1·7	1·7	25. Telangana . .	4 6	44	36·3	21·1	53	24	1 9	1·5
	+0·3		—0·6	—1·2	+1		+0·4			—5·9		—0 1	—0·1	—4		0	
10. Uttar Pradesh, West	28 8	188	30·1	13·0	55	32	1·7	2·1	26 Rayalaseema .	0	0	37·0	22 3	60	40	0·6	1·2
	+13·5		—0·3	—1 2	+3		—0·1			—4 6		—0·6	—0·2	+9		—0·5	
11. Punjab (including Delhi). . .	30 3	120	28·3	12·4	60	40	2 3	2·5	27 Madras State (including Pondicherry) .	5 4	34	33·4	22·9	72	55	2·5	2 3
	+5·1		—0 6	—1·2	+3		—0 1			—10 5		—0·2	0	—3		—0·1	
12. Himachal Pradesh	73 1	.	25·3	8·3	69	35	1·3	2·3	28. Coastal Mysore .	0	0	31·3	22·5	78	71	1·6	2·2
	.		..	.	..		..			—2·0		—0·4	—0·7	0		—0·6	
13. Jammu and Kashmir	29·5	24	15·5	2·8	66	49	4·3	3·7	29. Interior Mysore, North.	0·9	12	35·8	20·9	49	26	1 3	2·7
	—94·5		0	—1·2	+2		+0·2			—6·9		—0·2	—0·1	0		+0·3	
14. Rajasthan, West .	5 8	73	32·5	14·9	45	23	1·1	1·8	30 Interior Mysore, South	9·0	75	33·7	19 2	68	27	1 4	2·5
	—2·1		+0·7	—0 9	—5		—0·8			—3·0		—0·4	—0 1	+4		—0·3	
15. Rajasthan, East	2·9	58	31·9	15·8	39	20	1·1	1·7	31. Kerala . .	24·9	54	32·3	24·2	75	68	2·7	3·3
	—2·1		—0·1	—0·3	+1		—0·3			—21·1		+0·2	—0 7	—1		0	
16. Madhya Pradesh West	7·5	89	33·0	15·8	39	22	1·5	2·2	32. Arabian Sea Islands	0 4	3	31 7	24·5	73	65	2 5	2·0
	—0.9		—0·6	—0·8	+2		+0·1			—12·8		+0.5	—0.6	+1		—0·2	

NOTE.—The entries in the second line for each division and sub-division indicate departures from normal.

*Data of Himachal Pradesh not included.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MARCH, 1965 (PHALGUNA 10, 1886 CHAITRA 10, 1887 SAKA)

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No of rainy days (2 5 mm or more)		Wind speed km per hour			Weather phenomena—No of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0 1 and 0 2mm)	Precipitation (0 3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	30 9		33 3	25	22 9		20 8	27	0	41 4		41 4	1	1		9 1	5 7		0	1	0	0	0	0	0	0	0	0	0
Long Island	30 6		32 3	24	20 7	.	18 2	29	0	17 4		14 6	18	1		7·5	4 3		0	2	0	0	0	0	0	0	0	0	0
Port Blair .	31 9	+1 1	33 4	28	22 0	+0 1	19 6	28,29	0 2	21 4	—7·1	17 4	1	1	—1 1	6 8	4 6	—4 9	1	4	0	0	3	4	0	0	0	0	0
Car Nicobar .	31 1		31 9	27	22 9		16 9	25	9 5	19 5		8 0	28	3		8 0	4 4		0	4	0	0	0	0	0	0	0	0	0
Nancowry .	32 8		34 4	4,30	25 2		23 1	15	18 8	46 2	.	23 0	15	6					0	7	0	0	11	0	0	0	0	0	0
Kondul . .			.	..	24 6	.	23 4	27	63 5	77 6		26 2	10	6			..		0	7	0	0	1	0	0	0	0	0	0
North Assam (including Nefa).																													
Pasighat .	25 2		30 4	18,20	14 4		11 0	4	5 7	103 7		31 0	23, 25	4		11 6	17 0		2	11	0	1	9	0	0	0	0	0	0
Dibrugarh (Mohanbari)	26 2	+0 6	30 6	16,17 20	12 6	—2 0	9 9	5,6	17 0	60 2	—42 9	13 2	29	10	+1 5	6 5	4 6	+0 4	2	13	0	0	16	1	0	0	0	1	0
Digboi	28 0		31 5	30	13 5		10 0	9	4 3	38 7		5 7	30	7					0	14	0	0	0	0	0	0	0	0	0
North Lakhimpur.	26 5	—0 6	30 4	20	12 7	—2 3	8 9	5	9 4	38 9	—72 7	8 2	24	6	—0 3	6 5	4 2		0	10	0	0	3	0	0	0	0	0	0
Sibsagar .	26 7	+0 5	30 4	18,20	14 9	—0 7	11 8	6	11 0	30 3	—81 5	8 6	29	5	—3 5	3 1	2 4	—1 5	0	8	0	0	9	18	0	0	0	0	0
Gohpur .	27 2	.	31 1	19	12 8		9 1	5	10 4	43 4		35 4	25	2		6 3	5 0	.	1	4	0	0	0	1	0	0	0	0	0
Majbat . .	29 3	..	38 6	1	..	.			0	35 2	.	30 0	24	2		4 3	5 6	.	0	3	0	0	0	0	0	0	0	0	0
Jorhat (Aerodrome)	27 5	..	31 3	20,22	14 4		11 0	15	19 8	50 5	.	18 8	25	7	..	.			0	9	0	0	9	1	0	0	0	0	0
Tangla . .	29 9	.	33 4	19	15 1	..	9 3	3,5	10 0	24 0		10 4	24, 27	3		4 5	3 3		0	3	0	0	0	0	0	0	0	0	0
Tezpur . .	28 9	+0 3	32 4	17,19	15 9	—0·9	13 0	3,4	1 1	48 8	0	17 6	25	5	+0 5	8 3	7 1	+1 8	0	6	0	0	0	0	0	0	0	0	0
Golaghat	28 2		32 1	20	14 4		10 7	6	4 2	40 4		20 0	24	5					0	7	0	0	0	0	0	0	0	0	0
Rangia . .	29 7		33 6	19	13 9		10 0	3	0	50 3		24 0	24	4	..	(a) 8 0	6 1		0	4	0	0	0	0	0	0	0	0	0
Chaparmukh .	30 4		34 5	20	11 0				0	54 0		25 2	24	3		10 4	7 5		0	5	0	1	0	0	0	0	0	0	0
Goalpara .	28 8	.	32 3	12	11 5		5 8	1,3,4	38 2	94 2		35 2	30	5					0	6	0	0	0	0	0	0	0	0	0
Gauhati . .	*			.	..		..			11 7	—38 8	7 5	23	1	—2 8		.		1	4	0	0	0	0	0	0	0	0	0
Gauhati(Bhorjor)	29 3	—0 6	33 2	19	13 7	0	9 5	3	1 6	74 5	+24 0	31 2	30	6	+2 2	8 1	4 9	.	1	6	0	0	7	0	1	0	0	2	0
Dhubri (Rupsi)	30 7	.	35 1	19	14 0		8 7	5	15 6	63 2		53 6	30	3		10 7	8 2		2	5	0	0	5	0	0	0	2	0	0
Dhubri . .	30 2	+0 2	34 5	19				.	34 6	46 8	+4 6	16 2	29	4	+1 5	8 8	10 0	+2 8	0	4	0	0	2	0	0	0	0	0	0
Lumding .	32 7	+2 6	35 0	19	13 0	—1 6	9 1	3	19 6	82 9	+37 2	35 4	30	6	+1 7	6 6	4 6		0	7	0	0	0	0	0	0	0	0	0
South Assam (including Nagaland Manipur and Tripura																													
Tura .	29 2	.	33 4	19	13 1	.	7 1	24	32 3	52 0		20 4	24	4		7 0	6 9		1	4	0	0	0	0	0	0	0	0	0
Haflong .	25 2		28 7	19	14 5		9 6	4	8 2	78 5	—30 0	31 8	4	7	—0 2	.	.	.	0	7	0	0	7	0	0	0	0	0	0
Silchar (Kumbhirgram)	30 3		33 5	16,17	15 9		12 6	6	22 9	68 8		18 2	29	7	.	7 0	9 3		0	9	0	0	9	0	0	0	0	0	0
Silchar	27 5	—2 8	32 5	23	16 5	—0 7	13 4	6	18 2	69 8	—101 9	23 0	29	5	—3 1	4.3	2 2	—0 9	0	7	0	0	8	0	0	0	0	0	0
Imphal(Tulihal)	26 2	—0 6	29 8	17	7 0	—3 4	3 1	2	3.0	21 2	—30 0	9 5	4	4	+0 1	11 0 (d)	6 6 (d)	—1 0	1	7	0	0	8	1	0	0	0	0	0
Kailashahar .	31 3		34 3	19	15 0		10 8	6	74 6	89 5	.	30 8	29	6		5 4	3 2		0	7	0	3	7	0	0	0	3	0	0
Agartala .	32 3	—0 3	35 0	18	16 4	—2 2	10 3	5	10 6	61 2	—9 7	29 6	28	4	0	9 1	6 0	—0 8	0	4	0	0	7	5	0	0	0	2	0
Sub-Himalayan West Bengal																													
Baghdogra	29 3	—1 0	33 3	19	12 8	—2 5	6 2	4	5 5	22 6	—10 2	17 0	31	2	—0 5	13 6	9 8	+2 9	0	3	0	0	3	0	0	0	0	0	0
Jalpaiguri .	29 9	—0 3	34 9	19	15 4	—0 3	10 3	4	4 6	34 0	+1 7	12 0	25	4	+1 7				1	4	0	1	5	0	0	0	0	0	0
Cooch Behar .	29 5	.	34 1	19	13 6		8 1	4	4 7	89 5	+47 8	60 0	30	3	+0 5	7 8	4 8		0	4	0	0	7	0	0	0	0	0	0
Balurghat .	32 1		36 5	19	15 1	..	9 7	2	16 4	22 8	..	22 8	24	1		6 9	4 7	.	0	1	0	0	0	0	0	0	0	0	0
Malda . .	31 9	—0 4	35 9	19	16 7	+0 3	12 7	5	52 4	57 8	+38 2	55 4	24	1	—0 3	4 1	2 5	—3 5	0	3	0	1	4	0	0	0	0	0	0
Gangetic West Bengal.																													
Berhampore .	32 6	—0 8	36 9	19	16 8	—1 7	13 3	4	41 8	54 2	+27 8	50 8	24	1	—0 9	4 4	3 2	—0 3	0	3	0	1	2	5	0	0	0	0	0
Suri .	32 6		36 9	19	17 3		12 8	5		36 4	.	19 0	30	3		.	5 6	.	0	3	0	0	0	0	0	0	0	0	0
Asansol .	32 9	—1 4	37 0	19	16 0	—2 8	11 8	5	4 6	37 4	+16 6	19.8	30	3	+1 2	8 3	5 8	—1 0	0	4	0	0	7	0	0	0	0	1	0
Shanti Niketan	32 4		36 6	19	17 2		12 1	6	13 6	62 4		32 8	30	4	..	6 8	5 8		0	5	0	0	7	0	0	0	0	0	0
Krishnanagar .	33 6	—0 1	37 8	18	17 1	—1 6	11 0	5	21 2	50 5	+11 9	20 2	23	4	+1 9	3 9	4 4	—0 3	0	4	0	0	4	0	0	0	0	0	0
Purulia . .	32 3	—1 6	36 1	19	17 2	—2 8	13 0	1	1 4	34 1	+14 9	17 0	21	2	0	6 7	4 9	+0 3	3	3	0	1	7	0	0	0	0	0	0
Bankura	33.6		37 6	19	18 3	.	13 9	5	55 2	102 0	+74 3	69 2	24	3	+1 1	4 8 (d)	3 1 (g)	.	0	3	0	1	1	0	0	0	0	0	0
Burdwan .	33 2	—0 9	37 0	19	.		..	..	16 2	58 6	+19 0	19 0	30	4	+1 7	7.9	5 7	+2 5	0	4	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome).	31 0	.	35 3	28	18.2	.	12 7	5	36 7	80 8	..	35.2	23	4		.	..	.	0	4	0	0	8	10	0	0	0	0	0
Calcutta (Dum Dum).	32·8	—0.9	36 4	18	18 7	—1 8	13 4	5	3 0	22 4	—6 7	11.4	24	4	+1 5	9 8	6 6	—2 0	0	5	0	0	6	2	0	0	0	0	0
Calcutta .	32 7	—0 9	36.3	18	20 0	—0 4	15 3	5	2 5	27 5	—7 0	14 2	24	4	+1 7	11 4	5.7	+0 1	0	4	0	0	6	2	0	0	0	0	0
Midnapore .	33 6	—1 5	37.2	18	19 1	—1 7	14 2	5	13 3	25 1	—10 7	6.4	29	5	+2 6	8 1	5 9	+1 7	0	6	0	0	3	0	0	0	0	0	0
Contai .	31 1	—1 4	35 3	12	20 1	—2 1	15.6	4	39.5	74 9	+59.4	32 0	30	5	+3.6	14 5	9 7	—1 2	0	5	0	1	0	0	0	0	0	0	0

(a) Mean of 30 days. (d) Mean of 27 days. (g) Mean of 24 days.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MARCH, 1965 (PHALGUNA 10,1886—CHAITRA 10, 1887 SAKA)

Sub-Division and Station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm or more)		Wind speed, km per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2mm)	Precipitation (0·3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Gangetic West Bengal—(*Contd*)																													
Sagar Island	28·6	−1·7	32.8	13	22·8	−0·6	17·7	23	7·8	74·4	+41·6	33·8	23	3	+1·2	19·5	19·6	+4·2	0	4	0	0	6	3	0	0	0	2	0
Sandheads	30·1		33·3	17	23·6		19·8	24	33.5	62·1	+41·3	25·0	22	3	+2·0				0	4	0	0	6	0	0	0	0	0	0
Orissa																													
Baripada	34·8		36·6	19	18·3		13·2	6	36·8	74·6	.	19·8	23	6		5·0	3·3		0	6	0	2	6	0	0	0	0	0	0
Jharsuguda	33·9	−0·9	38·5	29	17·7	−0·9	11·5	5	8·2	64·3	+33·3	30·4	30	3	+0.5	9·4	6·9	−0·2	0	5	0	1	9	0	0	0	0	3	0
Keonjhargarh	32·3	.	35·5	19					21·0	58·4	.	35·0	30	2	.	9·3	6·1		0	4	0	0	0	0	0	0	0	0	0
Balasore	33·2	−0·5	36·8	9	18·5	−2·3	12·9	5	34·7	82·9	+36·2	29·0	30	5	+2·1	11.8	8·1	+1·8	0	6	0	1	6	0	0	0	0	0	0
Sambalpur	34·0	−1·4	37·6	29	17·4	−1·9	12·8	4	22·0	98·0	+76·2	57·0	30	3	+1·3	5·9	4·8	+0·8	0	3	0	0	1	0	0	0	0	0	0
Angul	34·8	−0·6	40·0	13	18.4	−1·7	13·2	5	3·4	25·6	+7·1	12·0	30	2	+0·3	9·1 (a)	7·1	+0·5	0	5	0	0	5	0	0	0	0	0	0
Chandbali	33·6	−0·6	36·8	19	20·0	−1·5	14·5	5	10·6	21·9	−10·9	11·0	30	2	−0·1	12·6	9·3	−0·4	0	4	0	0	2	0	0	0	0	1	0
Bolangir	35·1		39·9	29	19·7		14·7	5	19·0	37·8		16·4	31	4		5·5	7·1	.	0	6	0	1	6	0	0	0	0	0	0
Phulbani	32·8		35·5	18,19, 28	14·2	..	6·0	5	12·2	55·4	.	28·0	30	4	..	6·3	3·8	.	0	6	0	0	5	2	0	0	0	0	0
Cuttack	35·5	−0·4	38·9	18	21·0	−1·1	17·4	5	12·4	24·6	−1·8	17·1	30	2	+0·6	8·6	6·1	+2·2	0	4	0	0	0	4	0	0	0	0	0
Titlagarh	35·4	..	38·3	29	20·2	.	14·0	5	71·7	118·1		59·8	31	5		4·8	3·6	..	0	8	0	1	10	0	0	0	0	0	0
Bhubaneswar	34·5	−0·6	37·7	17	20·8	−1·5	16·4	5	30·0	38·9	+22·1	29·2	30	2	+0·7	18.3	14·7	−2·4	0	4	0	0	6	2	0	0	0	0	0
Puri	29·7	−0·5	30·7	25	22.5	−1·7	18·9	30	3·4	34·8	+22·1	28·4	23	2	+1·1	20·7	21·0	+3·9	1	3	0	0	3	0	0	0	0	0	0
Gopalpur	30·2	−0·4	32·0	3	21.5	−1·2	17·9	6	0·7	28·1	+12·1	21·6	23	3	+1·9	19·5	16·2	+0·4	0	4	0	0	5	0	0	0	0	0	0
Koraput*																													
Bihar Plateau																													
Dumka	32·8	−0·4	37·0	19	16·1	−2·0	11·4	5	8·2	30·4	+7·3	11·2	30	3	+1·4	9·6	5·0	+1·9	0	3	0	0	0	0	0	0	0	0	0
Daltonganj	32·4	−0·5	35·6	27	13·6	−1·9	7·4	6	5·2	11.2	−5·8	10·2	29	1	−0·6	6·4	4·3	−0·2	0	2	0	0	0	0	0	0	0	0	0
Hazaribagh	29.5	−1·4	33·9	19	14·8	−2·5	9·4	5	4·9	21·5	−2·4	13·6	30	2	+0·1	11·8	9·4	−0·9	0	6	0	0	9	0	0	0	0	0	0
Dhanbad	32·3	..	36·0	9,19	19·0		14·0	4	15·6	53·8	.	26·4	30	3		3·6	3·0	.	0	5	0	0	7	0	0	0	0	0	0
Ranchi	29.1	−1·4	30·9	11,29	15·3	−2·1	12·3	3,4	17·5	53·0	+22·8	24·0	21	3	+0.5	6,8	4·5 (a)	−2·9	0	4	0	0	5	0	0	0	0	0	0
Ranchi (Aerodrome)	29·6	.	33.4	29	15·8	.	11·4	24	10·0	47·2	.	19·0	30	3	.	11·7	9·8		0	5	0	1	7	0	0	0	0	1	0
Jamshedpur	33·7	−0·7	37·0	19	16.9	−1·3	13·3	5	0·5	20·4	+2.1	16·3	30	2	0	8·6	5·9	+1·6	0	4	0	0	4	3	1	0	0	0	0
Jamshedpur (P B O.)	33.4	.	36.5	19	17·1	.	11·6	5	0·6	20·0		16·0	30	2	.	9·1	5·9		1	2	0	0	6	0	0	0	0	0	0
Chaibasa	33·7	−0·9	37.0	19	17·0	−1·8	11·6	5	13·6	55·2	+33·1	20·2	30	5	+3·3	5·7	3·8	+0·6	0	7	0	0	4	0	0	0	0	0	0
Bihar Plains																													
Motihari	30·5	−0·9	34·5	19	..	..	. ,	..	3·2	27·7	+15·2	15·7	31	2	+1·1	7.3	4·5	−0·3	0	5	0	0.2	5	0	0	0	0	0	0
Forbesganj	30·9	.	35·3	19	13·0	.	6·9	4	3·4	43·2		31·8	31	2	.	10·1	6·6	..	0	4	0	0	5	0	0	0	0	0	0
Darbhanga	30.9	−0·7	35·0	19	14.8	−1·0	9·9	2	10·4	24·2	+11.3	10·4	24	3	+1·9	5·6	4·2	−0·1	0	4	0	0	2	0	0	0	0	0	0
Muzaffarpur	.		.	..	..			..	29·4	+19.7	19·1	24	2	+1·1	.	.		0	4		..		..		..		..		..	
Chapra	31.9	.	36.2	19	16·5		12·0	4	0·8	7·2	−1·9	4·6	20	2	+1·1	8·6	3·8		0	2	0	0	4	0	0	0	0	0	0
Purnea	31·5	−0·4	35·6	19	12·5	−2·7	5·8	2	20·8	21·4	+8·7	17·8	24	1	−0.1	8·6	5·3	+0·8	0	2	0	0	3	0	0	0	0	0	0
Patna	32·2	+0.1	37·0	19	16·7	−1·2	12·1	1	6·8	11·2	+0·5	4·6	20	3	+1·9	7·6	7·3	+1·7	0	3	0	0	3	0	0	0	0	0	0
Patna Aerodrome	31·4	..	35.3	19	14.6	.	10.4	2	4·9	8.7		4.1	20	2	..	10·9	6·1		0	3	0	0	4	0	2	0	0	0	0
Arrah	..	.		..	.	.	..	..	..	0	−9·7	0	.	0	−0·9	.	.	.	0	0	..	..	.	..	..	..	..	..	..
Bhagalpur	32·4	−0·6	37·6	19	17·2	−1.9	13·2	24	14·0	16·1	+10·5	12·4	24	1	+0·3	8·7	6·5	−1·2	0	5	0	0	4	0	0	0	0	0	0
Sabaur	31.6	−1·0	37·0	19	13.0	−2·1	8.2	2	20·8	24·4	+13·7	19·0	24	1	+0·1	9·0 (b)	5·5 (b)	−2·9	0	5	0	0	4	0	0	0	0	0	0
Jamui	32.2	.	36.5	31	16·4	..	11.6	5	4·5	4·5	..	2·5	23	1	.	7.0	5.1	.	0	2	0	0	0	0	0	0	0	0	0
Dehri	32·3	.	37·2	19	17·5	.	13·2	4	2·3	10·5	−0·7	7·2	19	2	+1·0	9·3	7·0	.	0	2	0	0	2	0	0	0	0	0	0
Gaya	32·8	−0.4	36·6	19	15·4	−1.9	10.7	1,4	1·4	5·8	−6·7	8·8	19	1	−0·2	11·7	8·0	+0·4	2	3	0	0	4	0	0	0	0	0	0
Uttar Pradesh East																													
Kheri (R)																													
Baharaich	31·4	−0·1	36·2	18	14·4	−0·5	8·6	1	0	9·2	−0·7	4·4	31	2	+1·2	11.1	7·3	+2·8	0	3	0	0	4	0	0	0	0	0	0
Nautanwa	31.3	.	35·0	18	.	..	..	..	0	2·2	.	2.2	31	0	..	.	.	..	0	1	0	0	0	0	0	0	0	0	0
Hardoi	30·8	−1·2	36·8	18	13·5	−2·2	9·0	1	.	..	..	..	.	..	..	11·5 (a)	7·3	+1·1	..	..	0	0	3	0	0	0	0	0	0
Gonda	31·7	−0·5	36·0	30	14·3	−0·8	9·3	1	3·4	5·3	+0·7	3.4	24	1	+0·2	9·4	6·0	−1.4	0	3	0	0	0	0	0	0	0	0	0
Lucknow	30·7	−2·0	37·0	19	14·0	−1·9	11·0	2,3,9	7·0	6·8	−1·8	4·2	24	1	+0·1	5·5	4·0	+0·3	0	5	0	2	2	1	0	0	0	0	0
Lucknow (Amausi)	31·8	−0·5	36·0	18	13·0	−1·1	6.7	1	5·2	4·0	−4·6	3·0	31	1	+0.1	14·2	9·3	..	0	3	0	2	3	0	0	0	0	1	0
Faizabad	31·6	..	36·8	18	13·3	..	8·7	1	0·8	6·2	..	4·6	31	1	..	7·5	4·0	..	0	3	0	0	2	0	0	0	0	0	0
Gorakhpur	32.3	+0.1	36·6	18,19	16·1	−0·2	12·1	4,5	0.4	0.4	−9·5	0·2	20, 24	0	−0.8	8·7	5·5	+1·8	2	0	0	0	0	0	0	0	0	0	0
Kanpur	31.8	−0·1	37.9	18	15.2	−0·4	9.3	1	0	2.0	−5.4	2.0	31	0	−0·8	14·9	9.4	−0.3	0	1	0	0	0	0	0	0	0	0	0
Kanpur (Aerodrome)	32·1	..	36.7	18	14·4	..	8·2	1	0	1.6	..	1.6	31	0	..	..	..	..	0	1	0	0	4	0	3	0	0	0	0

(a) Mean of 30 days. *Data available for less than 15 days hence no means published. (b) Mean of 29 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm or more)		Wind speed, km per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2mm)	Precipitation (0.3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Uttar Pradesh East—(Contd)																													
Sultanpur	32 1		36 4	18	14 4		8 9	1	0	14 8	.	8 4	31	2		7 9	6 1	.	0	2	0	0	4	0	0	0	0	0	(
Azamgarh	32 6	..	38 3	18	14 7		10 6	1,4	3 4	15 0	.	7 6	31	3	.	..	.		0	3	0	0	1	0	0	0	0	0	0
Fatehpur	32 6	−0 3	38 0	18	14 2	−1 5	9 0	1	0	3 9	−3 2	2 4	31	0	−0 9	11·3	6 8	+1 3	0	2	0	0	2	0	0	0	0	0	0
Ballia	31 9	.	35 5	31	13 5		9 0	1	9 4	23 6	.	9 4	24	3		7 7	4 8		0	4	0	1	0	0	0	0	0	0	0
Banda	32 9		38 4	18	15 6		10 6	4	0	5 2		2 7	19	2		5 5	3 0		0	2	0	0	0	0	2	0	0	0	0
Allahabad (Bamhrauli).	33 0	−0 2	37 6	18	15 5	−0 6	10 6	4	4 6	21 2	+7 0	15 6	19	2	+0 7	7 0	4 1	−2 0	0	3	0	0	5	0	1	0	0	3	0
Varanasi (Babatpur)	32 4	−0 9	36 9	19	14 1	−2 8	9 6	2	5 1	19 9	+6·0	13 4	19	2	+0 6	13 6	8·8	−1 5	0	3	0	0	5	0	0	0	0	0	0
Varanasi	32 4	−0 7	37 6	19	15 2	−1 2	11 5	1	0	23 8	+14 4	19 4	19	2	+1 1	7 8	6 0	+0 4	0	3	0	0	1	0	0	0	0	0	0
Uttar Pradesh, West																													
Mukhim	16 3		21 2	14	6 5		0 3	20	56 4	102 8	.	37 4	20	6					0	9	3	6	8	3	0	0	0	0	0
Tehri	25 8		31 4	18	9 1		4 6	3	25 2	53 4		34 0	20	4		4 5	2 3		1	6	0	0	7	2	1	0	0	0	0
Dehra Dun	25 1	−1 2	30 4	18	10 2	−2 1	6 2	1	31 2	103 6	+71 6	38 8	19	6	+3 3	4.4	4 0	+0 6	0	6	0	1	8	0	0	0	0	0	0
Mansiari	13 2	.	18 1	14,18	.			..		176 7	..	68 0	20	12	.	.	.		0	15	8	5	0	0	0	0	0	0	0
Roorkee	28 6	−0 2	33 0	17,18	11·6	−1 2	8 7	1	26 9	15 5	−4 3	7.1	31	2	+0 4	8 5	5 0	+1 0	0	4	0	0	3	0	0	0	0	0	0
Najibabad	28 9	.	34 4	18	11 0		4 9	1	13 6	16 8	.	11 6	20	2	.	12 0	7 4		0	3	0	1	7	0	0	0	0	0	0
Meerut	29 7	−0 2	35 0	17	12 2	−1 8	7 9	1,2		2 0	−13 2	2 0	20	0	−1 4		7 2	.	0	1	0	0	1	0	0	0	0	0	0
Bareilly	30.3	−0 3	36 3	18	14 1	−0 7	10 4	4	4 4	103 0	+87·5	96 0	20	2	+0 7	12 2	7 6	+3 6	0	4	0	2	3	2	0	0	0	0	0
Aligarh		.	.		13 4	−1 3	9 0	1	3 2	0 6	−13 9	0 6	23	0	−1 3	11 1	7 4	+0 5	0	1	0	0	0	0	0	0	0	0	0
Mainpuri	32 3	+0 1	37 6	18		.			0	3 1	−5 5	2 2	23	0	−0 8	6 6	3 2	−0 7	0	2	0	0	3	0	0	0	0	0	0
Agra	31 7	+0 1	37 5	18	14 9	+0 3	9 3	4	0	0	−8 1	0		0	−0 8	7 4	5.2	−0 8	0	0	0	0	0	0	0	0	0	0	0
Agra (Aerodrame)	31 7		37 1	18	13 1	.	7 8	1,4	0	10 9		5 1	27	2		14 5	11 4		0	3	0	0	6	1	0	0	0	0	0
Orai	32 6		37 8	18	15 4		10 4	4	2 0	0		0		0					0	0	0	0	0	0	0	0	0	0	0
Jhansi	32 9	−0 7	37 4	18	14 9	−1 8	10 5	4	2 7	2 7	−5.7	2 7	29	1	+0.2	4 9	5 1	0	0	1	0	0	0	0	0	0	0	0	0
Punjab (Including Delhi)																													
Pathankot	26 2	−0 9	31 8	17	10 5	−3 0	7 0	3	35 5	35 2	−20 2	9 9	31	5	+1 1	.		.	0	5	0	1	10	0	1	0	0	0	0
Bhuntar	20 9	.	27 2	14	5 6	.	1 6	3	49 1	129.1		44 7	19	5		7 8	6 2		0	10	0	1	8	0	0	0	0	0	0
Amritsar (Rajasansi)	27.9	+0 6	32 6	18	10 0	−1 4	4 8	3	8 2	19 5	−6 9	16 6	31	2	−0 2	12 2	8 8	−0 4	1	2	0	1	4	0	0	0	0	1	0
Adampur (Aerodrome)	27 5		32 5	18	9 4	.	4 1	1	47 2	52 0		23 9	20	5					0	7	0	3	7	0	0	0	0	0	0
Ludhiana	29 1	+0 7	33 8	17	12 0	−1 5	7.2	1	19.4	15 8	−8 1	9 4	31	2	+0.2	7 3	5 7	+2 5	0	4	0	0	7	0	0	0	0	0	0
Ferozepur	27 7	.	34 0	18	11 7	..	6.7	4	1 0	5 0	.	3 0	19	1	.	6 3	4 0	.	0	3	0	0	1	0	3	0	0	0	0
Halwara (Aerodrome).	27 2	.	31 7	17	9 7	..	3 9	3	3.3	6 8		6 8	31	1				.	0	1	0	0	5	0	0	0	0	0	0
Chandigarh	27 2	−1 4	32 5	18	15 1	+0 8	10 2	1	51 6	76 8	+50 6	58 8	20	4	+1 0				0	4	0	0	0	0	0	0	0	0	0
Ambala	27 7	−1 4	32 2	18	12 3	−1.3	7 4	4	54 5	62 9	+39 0	56 6	20	2	+0 2	9 3	8 4	+2 4	0	3	0	0	4	0	0	0	0	0	0
Ambala (Aerodrome).	27 7		32 8	17	11 7	..	6 2	3	33 6	37 4	.	30 5	20	2	.				0	4	0	0	5	0	0	0	0	0	0
Patiala	28 9	..	33 6	17	12 7	..	7 2	4	21 0	10 0	−6 8	4 0	19, 25	2	+0 3	11 6	9 3	.	0	3	0	2	4	0	0	0	0	0	0
Bhatinda	..	..	36 4	17,18	10 8	..	4 9	3	0 4	0 8		0 4	28	0		7 6	5 4	.	0	2	0	0	2	0	0	0	0	0	0
Karnal	28 1	.	33 5	17	.	..			4 0	4 0	.	4 0	19	1			..		0	1	0	0	1	0	0	0	0	0	0
Hissar	30 6	−0 4	37.7	17	12 9	−0 9	8 1	1	10 0	21 0	+4 7	7 2	31	4	+2 5	8 1	6 1	−0.8	0	5	0	0	3	0	0	0	0	0	0
New Delhi (Safdarjung)	29 5	−1.1	35 0	17	14 0	−0 8	9 1	1	0 3	1 6	−11 3	0 8	23	0	−1 3	15 5	9 8	−1 6	1	3	0	0	2	1	1	0	0	2	0
Palam (Aerodrom). (c)	29.8	..	35 5	17,18	12 7	..	6 7	3	0	0.7		0 7	29	0		..	..	.	0	1	0	0	5	0	0	0	0	0	0
Himachal Pradesh																													
Mandi	24·8	−0 3	30 1	18					19 0	73 2	+0 7	39 4	20	5	−0 3	9·1	2 6	−0 6	1	6	0	0	2	0	0	0	0	0	0
Bilaspur	25·8	.	30 4	18	8·3		4 9	1	24 0	73 0	.	44 0	19	5		7 1	5 0	..	0	5	0	0	1	1	0	0	0	0	0
Jammu and Kashmir																													
Misgar (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras*																													
Sonamerg	..		.		..	..		..		15 3	−325 3	8.0	18	1	−11 8		..	.	0	8	7	.	..	..	.	.	.	.	.
Leh	6·2	−0 6	12 1	17	−6 9	−0 8	−13 0	4	0	0	−7 1	0		0	−0 9	5 5	5·8	+2 6	0	0	2	0	0	0	0	0	0	0	0
Srinagar	13 0	−0 8	17 9	15	3 2	+0·4	−6 9	3	21 8	63 9	−27 8	13 3	19	8	+0 6	7·3	6 0	+0.9	0	15	0	1	1	0	0	0	0	0	0
Srinagar (Aerodrome)	12 3	..	16·9	15	2 7		−1 1	3	19 1	61 6	..	14 2	19	7		..	..	.	0	10	0	1	5	0	0	0	0	0	0

(R) Register not received. *Data not reliable.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MARCH, 1965 (PHALGUNA 10, 1886—CHAITRA 10, 1887 SAKA)

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No of rainy days (2·5 mm or more)		Wind speed km. per hour			Weather phenomena—No of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2mm.)	Precipitation (0·3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Jammu and Kashmir—*Contd.*																													
Gulmarg	Closed during winter months																												
Qazigund	12 8	..	18 4	15	2 0		1 5	4	62 7	162 4	.	60 9	18	6	..	3 1	2 5	.	0	14	1	0	7	0	0	0	0	0	0
Banihal	15 1		21 6	16	3 7		0 3	10	80 8	161 0		39 8	18	10			.	..	0	14	1	2	5	0	0	0	0	0	0
Jammu	27 4	+1 3	31 4	30	12 1	−3·1	7 2	2	24 0	38 7	−17 7	14 4	31	4	+0 3	7 3	7 7	.	0	5	0	0	0	0	0	0	0	0	0
Jammu (Aerodrome)	26 3		31 1	17	13 3		7 8	3	32 5	45 6		17 0	19	4	.	.			0	4	0	0	8	0	1	0	0	0	0
Rajasthan West																													
Ganganagar	30 8	+0 5	37 0	16	11 7	−2 5	6·4	3	2 4	4·3	17 0	1 6	19, 23	0	−1 6	6 0	3 8	−1 3	0	4	0	0	3	0	2	0	0	0	0
Anupgarh (R)																													
Mahajan	31 8		37 5	16		.			5 1	5 1	.	5 1	8	1	.	9 6	7 4		0	1	0	0	0	0	2	0	0	0	0
Churu	31 1		36 8	16	13 1		7 1	3	0 3	3 1	.	2 8	31	1	.	12 9	8 2		0	2	0	0	3	0	1	0	0	0	0
Bikaner	32 2	+0 3	36 5	16	13 7	−0 9	8 1	2	0	2 4	−3 4	1 8	19	0	−0·6	10 0	7 0	+0 2	0	2	0	0	3	0	0	0	0	0	0
Nagaur	32 0		36 4	17	14 2		8 1	3	23 0	1 4	..	1 4	22	0		10 0	8 3		0	1	0	1	0	2	0	0	0	0	0
Phalodi	32 5		37 0	16	15 0		11 2	2	0	1 0	−2 6	1 0	31	0	−0·3	15 5	11 4		0	1	0	0	1	0	4	0	0	0	0
Jaisalmer	32 9		36 5	15,16	15 3	.	8 7	20	0	0	..	0		0		15 6	10 1	.	0	0	0	0	0	0	0	0	0	0	0
Jodhpur	33 0	+0 5	37 6	16	16 7	+0 3	12 2	8	12 5	18 0	+15 2	10 0	22	2	+1·8	10·0	8 4	−2 7*	0	4	0	1	5	0	1	0	0	0	0
Barmer	34 0	+1 7	37 6	15	17 6	−0 3	12 0	20	0	3 5	−2 8	3 5	22	1	+0 4	7 8	7 0	−2·3	0	1	0	0	3	0	0	0	0	0	0
Erinpura (Jawai Dam)	33 0 (c)		37 5	17	16 3	..	10 1	2	0	0		0	.	0		5 9	4 4 (d)		0	0	0	0	0	0	0	0	0	0	0
Munabao	38·9		49 4	1		..			0	0		0		0		11 8	7 0		0	0	0	0	0	0	0	0	0	0	0
Rajasthan East																													
Pilani	30 5		36 0	17	12 3		6 0	2	3 2	6 4		4 4	31	1		13 7	9 7		0	2	0	0	0	0	0	0	0	0	0
Sikar	30 2		35 2	16	12 1		5 4	3	2 7	2 7		2 7	23	11		4 7	2 9		0	1	0	0	0	0	2	0	0	0	0
Alwar	31·0		36 3	17	15 0		10 2	4	0	1 8		1·8	27	0	.	4 6	2 7		0	1	0	0	1	0	1	0	0	0	0
Jaipur(Sanganer)	30 3	−0 7	34 7	16	14 6	−0 1	10 0	24	0 9	8 0	−0 6	5 4	31	1	+0 1				0	4	0	0	6	0	1	0	0	2	0
Dholpur	32 7		39 0	18	13 4		8 2	1	0	0 2		0 2	29	0	.	10 0	5 9		1	0	0	0	2	0	0	0	0	0	0
Ajmer	31 1	+1 2	35 4	16	14 7	−1 0	8 8	3	0	2 0	−3 8	2 0	31	0	−0 7	10 4	7 5	+2 4	0	1	0	0	4	0	0	0	0	0	0
Tonk	32 5		37 6	17	16 6		9 0	4	0 5	1 1		1 1	29	0		9 5	7 2		0	1	0	0	0	0	0	0	0	0	0
Bhilwara	32 4		36 5	17	14 5		9 0	4	0	0		0		0	.	10 0	7 1		0	0	0	0	0	0	0	0	0	0	0
Kota (Aerodrome)	33 3	−0 4	37 6	17	19 7	+1 3	12 2	3	4 1	4 1	−0 2	4 1	30	1	+0 5	7 0	4 5	+1 1	0	1	0	1	1	0	1	0	0	0	0
Kota	33 2		37 9	18	17 2		12 1	4	0 1	2 9	.	2 9	30	1	.	12 3	9·1		0	1	0	0	3	0	0	0	0	0	0
Chambal (Rawat Bhatta Dam)	34 6		37 1	17	16 7		10 8	3	0	0 2	.	0 2	30	0	.	9 8	6·4	..	1	0	0	0	1	0	0	0	0	0	0
Udaipur	32 9		35 9	17	13 8	−2 0	8 4	20	0	0 3	−2 2	0 3	31	0	−0·3	6 6	3·3		0	1	0	0	2	0	0	0	0	0	0
Jhalawar	31 4	−0 3	37 5	17	16 0	+0 1	9 7	3	0	0	−3 6	0		0	−0 6	9·5	6 0	+1 2	0	0	0	0	0	0	0	0	0	0	0
Banswara	33 5	+0 5	38 8	17	14 0		7 4	20	0	0		0		0		10 2	5 5		0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	32 3	−1 1	37 9	18	14 1	−1 8	8 8	3	1 2	5 5	+0 2	2 0	31	0	−1 0	13 1	7 9	.	0	3	0	0	4	0	1	0	0	0	0
Sheopur	32 9	−1 3	36 4	18,28	14 2	−1 8	9 1	3	1 0	1 0	−7 8	1 0	30	0	−1 1	11 4	7 6	+1 2	0	1	0	0	2	0	2	0	0	0	0
Shivpuri	31 2		36 0	18	11 4		5·0	3	0	7 0		5 6	29	1	.	7 4	6 4	.	0	3	0	0	0	0	0	0	0	0	0
Nawgong	33 0	−0 2	38·2	18	13 4	−1 9	8·6	4	1·0	3 4	−4 2	1 6	19	0	−0 8	8 5	4 8	+1 7	0	4	0	0	5	0	0	0	0	0	0
Guna	32 3	−0 1	36 8	18	13 7	−0 6	7 3	3	1 5	1 6	−11 1	1 4	30	0	−0 9	14·1	8 7	.	2	1	0	1	4	0	0	0	0	0	0
Numach	32·1	−0 5	36 7	18	16 4	+0 2	12 0	3	0	3 7	+0 6	3 7	30	1	+0 7	13 4	9 1	+0 9	0	1	0	0	1	0	0	0	0	0	0
Ratgarh	33 8		40 1	7	15 2	.	8 5	3	0	0 4		0 3	29	0	.	12 0	8 5	.	1	1	0	0	0	0	0	0	0	0	0
Sagar	32·2	−0 5	35 5	17,18	17 0	−1 1	13 3	9	1 0	3 0	−5·4	2 0	7	0	−0·9	11 0	9 5		0	2	0	0	1	0	0	0	0	6	0
Ratlam	33 4	−0·7	37 8	17	16 2	−1 9	10 7	3	0	0	−2·2	0		0	−0 2	12 9	9 8	+2 0	0	0	0	0	0	0	0	0	0	0	0
Bhopal (Bairagarh)	32·9	−0·2	36 8	18	16 4	−0 2	11 9	20	0 2	0 3	−8 3	0 2	27	0	−0 8	15 5	11·5	+1 7	2	0	0	0	1	0	0	0	0	1	0
Ujjain	33·2		37·1	17	13 4	..	6 4	3	0	0		0		0	..	14·4	9 3		0	0	0	0	1	0	0	0	0	0	0
Narsinghpur	34·0		37 0	16,17, 118	13·6		6 2	4	3 0	13 0		8·0	19	2	.		.		0	4	0	0	0	0	0	0	0	0	0
Hoshangabad	34·0	+0 6	39·3	7	18 0	−0 2	9 4	4	2 8	2 8	−3 3	2 0	19	0	−0·6	7 8	6 0	+2 5	0	2	0	0	2	0	0	0	0	0	0
Indore	32·9	−1 2	36·4	28	15 8	+0·6	10·8	20	0	0	−2 0	0		0	−0 3	17 2	13 3		0	0	0	0	1	0	0	0	0	0	0
Rajpur (Jhabua)	34 3		37·8	13	16 4	.	9 4	3	0	0		0		0	.	10 1	6 4		0	0	0	0	0	0	0	0	0	0	0
Chhindwara	31·9	−1 0	35 1	29	16 0	−1 0	9·3	4	17 1	29 5	+17 2	9 8	2	4	+2 3	8 3	4·8	−1 0	2	5	0	1	10	0	0	0	0	0	0
Seoni	32·4	−0·9	37 3	28	16 6	−0 5	11 8	4	15 4	44 6	+24 5	18 2	2	5	+3 0	10 2	6 5	+1 8	0	7	0	0	5	0	0	0	0	0	0
Betul	32 8	−0 7	36 1	28	16·1	−0 3	8 3	4	6 4	9 2	−6 5	4 8	19	1	−0 6	7 9	4 3	−1 3	0	4	0	0	4	0	1	0	0	0	0
Khandwa	35 8	−0 5	38·8	17,28	17·8	−0·3	10·1	3	0	0	−4·3	0		0	−0 5	12 2	8·1	+1 5	0	0	0	0	2	0	0	0	0	0	0
Madhya Pradesh East																													
Satna	32·5	0	36·8	18	15 0	−1 3	10 1	4	11 0	22 7	+11·3	19 2	19	2	+0·9	8·4	5·3	+0 3	1	4	0	0	7	0	0	0	0	0	0

(R) Register not received. (c) Mean of 28 days. (d) Mean of 27 days. *Departure indicated relates to 1940 normal accepted provisionally

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MARCH 1965(PHALGUNA 10, 1886 -CHAITRA 10, 1887 SAKA)

Sub-Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No of rainy days (2·5 mm or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No of days with: Precipitation(0·1 and 0·2mm)	Precipitation(0·3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Madhya Pradesh (East)—(Contd)																													
Rewa	32 2		36 4	18	15 3		10 6	1	4 8	31 6	.	26 1	19	2		6 9	4 1		1	3	0	1	0	0	0	0	0	0	0
Sidhi	33 4		36 4	17	13 8		8 0	4,5	14 3	23 1	..	21 0	19	1					0	2	0	0	0	0	0	0	0	0	0
Umaria	32 8	+0 4	36 8	28	14 3	—0 9	8 9	4	0	5 5	—12 3	1 7	19	0	—1 7	9 4	5 5	+0 8	0	3	0	0	1	0	0	0	0	0	0
Jabalpur	33 3	+0 2	37 1	18	15 3	+0 4	8 8	4	17 1	12 3	—1 9	4 5	31	2	+0 6	8 3	5 0	+1 8	0	5	0	2	9	0	0	0	0	0	0
Ambikapur	30 8	—1 0	35 3	29	14 5	—0 5	9 7	4	3 7	20 2	—0 3	8 6	30	4	+1 7	.	.		0	6	0	0	5	0	1	0	0	0	0
Jashpur Nagar	29 1		32 7	28	11 8		7 3	5	0	37 3		22 0	30	3		10 2	5 8		0	5	0	1	0	0	0	0	0	0	0
Pendra	30 2	—0·5	35 5	28	16 6	—0 3	12 3	4,5	28 2	38 6	+10 9	12 5	3	4	+1 7	10 6	7 4		0	6	0	1	7	0	1	0	0	2	0
Mandla	32 2	—1·5	37 4	28	14 6	+0 5			11 3	34 5	+6 9	15 0	30	4	+1 9	(1) 7 0	(1) 3 5	+0 5	0	6	0	2	8	0	0	0	0	0	0
Champa	34 3	—1·0	38 8	29	17 7	—2 1	11 5	1	13 0	36 7	+14 0	26 4	31	3	+1 3	7 3	5 7	—0 4	0	4	0	1	6	0	2	0	0	0	0
Raigarh	34 8	—0 9	39 2	29	18 9	—1 3	12 5	4	9 4	57 8	+36 8	32 2	31	4	+1 9	5 9	4 7	—0 1	0	5	0	1	4	0	0	0	0	0	0
Raipur	33 8	—1·3	38 8	29	19 7	—0 3	14 0	4	33 1	64 8	+46 8	32 6	30	3	+1 3	8 7	6 5	—0 3	0	6	0	1	5	0	0	0	0	0	0
Kanker	34 1	—0 1	38 8	7	19 8	+1 2	14 2	4	9 2	19 0	—2 6	10 4	31	2	—0 1	7 5	5 8	+0 7	0	3	0	0	4	0	0	0	0	0	0
Jagdalpur	34 3	—0 3	36 4	28,29	18 9	+0 6	14 5	6	4 6	23 8	+10 3	12 0	31	3	+1 8	7 1	4·4	.	0	3	0	0	6	0	0	0	0	1	0
Gujarat Region (including Daman Dadra and Nagar Haveli)																													
Deesa	34 4		37 8	29					0	0		0		0		11 1	8 4	.	0	0	0	0	0	0	0	0	0	0	0
Radhanpur	34 5		38 1	16	15 7		9 2	20	0	0		0	.	0		10 0	6·8	.	0	0	0	0	0	0	0	0	0	0	0
Idar	34 4		38 5	17	18 7		13 1	8	0	3 4		3 4	31	1		11 2	8·2		0	1	0	0	1	0	0	0	0	0	0
Ahmadabad	35 4	—0 7	39 4	16	17 7	—0 3	11 5	20	0	0	—1 3	0	.	0	—0 2	9 7	5 9	—1 7	0	0	0	0	0	0	0	0	0	0	0
Dohad .	34 1	—1 0	38 2	17	17 5	—1 5	11 3	21	0	0	—1 6	0	..	0	—0 1	12 6	13 5	+0 4	0	0	0	0	1	0	0	0	0	0	0
Vallabh Vidya Nagar	35 6		40 0	16	15 8	.	10 3	3,9	0	0	.	0		0	.	10 9	7·7	..	0	0	0	0	0	0	0	0	0	0	0
Baroda	35 8		39 8	16	16 5		12 3	3	0	0	.	0	.	0		9 9	6·8		0	0	0	0	1	0	0	0	0	0	0
Aerodrome Baroda	36 8	+0 1	41 4	16	17 7	+1 0	13 3	3	0	0	—0 9	0	.	0	—0 1	2 9	1 6	—2·4	0	0	0	0	0	0	0	0	0	0	0
Broach .	38 3	+0 7	40 9	15	18 4	—1 4	14 3	3	0	0	—1 6	0		0	—0 1	4 4	3 2	—3 5	0	0	0	0	0	0	0	0	0	0	0
Surat	35·6	0	39 4	14	19 9	+0 5	16 4	3	0	0	—0 3	0		0	—0 1	11 5	8·4	+3 1	0	0	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch (including Diu)																													
Naliya	31 9	.	36 8	15	15 1		10 5	5	0	0	.	0	.	0	..	16 8	11·3	..	0	0	0	0	0	2	0	0	0	0	0
Bhuj (Rudramata)	34 4	+0 6	37 5	29	17 4	—0 5	12 0	20	5 7	0 1	—2 7	0 1	29	0	—0 2	14 1	11 9	+2 2	1	0	0	0	1	0	0	0	0	0	0
Kandla Aerodrome	34 5		38 5	28	17·9	..	12·2	20	0	0	.	0		0	..	22·1	20·2	.	0	0	0	0	2	0	0	0	0	0	0
New Kandla	31 7	.	35 3	15,30	19 6	..	15 7	20	0	0	.	0		0	.	18 2	17·4	.	0	0	0	0	0	0	0	0	0	0	0
Mandvi .	28 9	—0 9	34·4	12,14	18 9	+0 3	13 1	3	0	0	—0 7	0		0	—0 2	23·5	21 2	+0·9	0	0	0	0	0	5	0	0	0	0	0
Surendranagar	35 1	—1 1	31 0	21	19 0	—0 9	14 6	20	0	0	0	0	.	0	0	(a) 12 8	(b) 11 5	—0 9	0	0	0	0	0	0	0	0	0	0	0
Okha .	27 5		31 6	11	21 9	.	19 6	3	0	0	.	0		0	..	19 0	20 8	..	0	0	0	0	0	0	0	0	0	0	0
Jamnagar (Aerodrome)	32 3	—0 9	35 8	15	16 3	—0 6	11 5	3	0	0	—2 0	0	.	0	—0 1				0	0	0	0	0	2	0	0	0	0	0
Dwarka .	28 4	+0 5	34 1	11,12	21 8	+0·4	18 6	5	0	0	—2 8	0		0	—0 2	16 8	16·6	+1·5	0	0	0	0	0	0	1	0	0	0	0
Rajkot .	34 3	—1 4	37 6	16	16 5	—0 9	10·8	3	0	0	—1 3	0		0	—0 2	21·7	16·7	+0·1	0	0	0	0	1	2	0	0	0	0	0
Bhaunagar Aerodrome	34·4	+0 1	38 7	29	18 9	—0 4	12 2	3	0	0	—2 8	0		0	—0 2	22 2	18 1	+4 2	0	0	0	0	0	0	0	1	1	0	
Porbander Aerodrome	31 8	+0 3	37 4	15	18 9	—1 6	13 7	5	0	0	0	0	..	0	0	19 8	14 7		0	0	0	0	0	1	0	0	0	0	0
Keshod	34 4	.	38 2	15	17 1	.	14 0	3,20	0	0	.	0		0		21 5	16 9		0	0	0	0	0	0	0	0	0	0	0
Mahuva	35 1		38 6	15,16	18 3	.	12 4	24	0	0		0		0		(a) 12·2	10 0	..	0	0	0	0	0	0	0	0	0	0	0
Veraval . .	31 5		37·8	15	18 8	.	14·9	3	0	0	—1·3	0	.	0	—0 1	23 3	19 2	.	0	0	0	0	0	2	0	0	0	0	0
Konkan (including Goa)																													
Dahanu .	29 5	—0 7	32 6	13,15	20 4	—0 2	17 0	21	0	0	—0 1	0	.	0	0	(a) 19 5	13 6	0	0	0	0	0	0	0	0	0	0	0	0
Bombay (Santa Cruz)	31 7	+0 5	36 4	4	19·5	+0·6	17 0	1,21	0	0	—1 3	0		0	0	14 1	8 1	.	0	0	0	0	0	0	0	0	0	0	0
Bombay	29 8	—0 3	33 4	4	22 2	0	20·3	21	0	0	—1 3	0	.	0	—0 1	13 5	10 3	—1 3	0	0	0	0	0	0	0	0	0	0	0
Alibag .	29 2	—0 5	32 6	14	20 5	—0 3	18 0	21	0	0	—0·5	0		0	—0·1	..	10 3	+0 6	0	0	0	0	0	0	0	0	0	0	0
Bhira .	38 2		41 5	28	17 1	.	13 6	21	0	0	.	0	.	0		5 8	2 9	..	0	0	0	0	0	0	0	0	0	0	0
Harnai .	28 0	—1 0	30 2	5	23 1	—0 9	20 1	21	0	0	0	0		0	0	20 3	16 7	+1 2	0	0	0	0	0	0	0	0	0	0	0
Ratnagiri	30 5	.	32 4	4	20 4	.	18 4	3,4,21	0	0	—0 8	0		0	—0 1	13 1	7 9		0	0	0	0	0	0	0	0	0	0	0
Devgarh	30 0	—0 9	31 7	17	23 0	—0 9	20 8	21	0	0	—1·1	0		0	—0 1	20 9	16 3	+1 3	0	0	0	0	0	0	0	0	0	0	0
Vengurla .	31 0	—1 1	33 4	31	20 8	—0 9	17 9	20	0	0	0	0		0	0	.		..	0	0	0	0	0	0	0	0	0	0	0
Panjim	31 2	..	32 7	18	22 4		19·7	21	0	0	..	0		0		13 6	10 4		0	0	0	0	0	0	0	0	0	0	0
Mormugao .	29 7	.	30 8	15	23 4		21 3	21	0	0		0		0		16 1	14 3		0	0	0	0	0	0	0	0	0	0	0
Dabolim (Naval Air Station)	30 5		32 3	18	23 1		21 1	21	0	0	.	0		0		12 3	9·4		0	0	0	0	0	0	0	0	0	0	0
Madhya Maharashtra																													
Nandurbar .	36·4	..	39 8	16	20 2	..	15·2	21	0	0	..	0		0		6·5	4·7	..	0	0	0	0	0	0	0	0	0	0	0
Jalgaon .	37·1	—0·6	40 7	28	18 4	—0 4	12·4	3	0	3 3	- 0 3	3·3	6	1	+0 6	14 8	12·6	+2 9	0	1	0	0	1	0	0	0	0	0	0
Malegaon	36 0	—0 4	40 4	12	15·9	—1 2	11 2	3	0	0	-2 0	0	.	0	—0 3	11 8	8·4	+0 2	0	0	0	0	0	0	0	0	0	0	0

(b) Mean or Total for 29 days (a) Mean of 30 days. (1) Mean of 22 days.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER— MARCH, 1965 (PHALGUNA 10, 1886 CHAITRA 10, 1887 SAKA)

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No of rainy days (2 5 mm or more)		Wind speed km per hour			Weather phenomena—No of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation(0 1 and 0 2mm)	Precipitation(0 3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Madhya Maharashtra—(*Contd*)																													
Ozar	34 7		37 5	28	15 9		11 0	21	(d) 0	(b) 0						(e) 14 7	(g) 12 8				0	0	0	0	0	0	0	0	0
Deolali (Aerodrome)	34 9		37 8	28	15 4		10 8	21	0	0		0		0	.	11 9	8 1	.	0	0	0	0	0	0	0	0	0	0	0
Ahmadnagar	36 0	+0 8	38 8	28	17 6	+0 3	14 0	22	0	0	—5 3	0		0	—0 3	10 8	8 0	—0 5	0	0	0	0	0	0	0	0	0	0	0
Khandala	.	.			.		.			0	0	0		0	0	.	.	.	0	0	.	.				..			..
Poona (Aerodrome)	34 8	..	38 3	28	16 9	.	11 8	0,21	0	0	.	0		0					0	0	0	0	0	0	0	0	0	0	0
Poona	35 0	—0 6	38 2	28	15 2	—0 2	10 2	20	0	0	—1 5	0		0	—0 2	8 5	5 6		0	0	0	0	0	0	0	0	0	0	0
Jeur	36 9	0	39 5	29	17 9	—0 5	11 7	25	0	0	—2 0	0		0	—0 3	10 1	8 1	+0 2	0	0	0	0	0	0	0	0	0	0	0
Baramati	35 9	—0 6	39 1	28	17 7	—0 8	11 1	20	0	0	—2 6	0		0	—0 5	9 6	8 9	+0 1	0	0	0	0	0	0	0	0	0	0	0
Sholapur	36 3	—1 0	38 2	28	21 5	+0 8	17 0	20,21	0	0	—5 8	0		0	—0 5	10 0	8 1	—1 1	0	0	0	0	0	0	0	0	0	0	0
Miraj	35 7	+0 4	38 0	28,29	17 8	—0 3	12 3	21	0	0	—3 8	0		0	—0 7				0	0	0	0	0	0	0	0	0	0	0
Kolhapur	36 0	+0 1	39 2	28	18 4	—0 5	13 6	20,21	0	0	—9 7	0		0	—0 7	11 5	10 3	—0 3	0	0	0	0	0	0	0	0	0	0	0
Marathwada																													
Aurangabad	35 5	0	38 6	28	19 8	+0 4	14 8	22	0	1,4	—3 7	1 4	6	0	—0 5	11 8	11 3	+1 3	0	1	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthan)	35 1		38 3	28	17 7		13 2	8	0	0·2		0 2	5	0	.	11 6	9 0		1	0	0	0	0	0	0	0	0	0	0
Parbhani	36 5	—0 4	39 4	28	20 3	+0 2	16 2	21	0	0	—7 2	0	.	0	—0 6	9 5	6·5	—1 2	0	0	0	0	0	0	0	0	0	0	0
Nander	37 3	.	39 6	28	20 6		14 0	21	0	0		0		0		11 0	5 6	.	0	0	0	0	0	0	0	0	0	0	0
Bir	38 3		38 9	27,28	17 9		12 5	20,21	0	0	..	0	..	0		8 2	4 9		0	0	0	0	0	0	0	0	0	0	0
Vidarbha																													
Gondia	34 1	—0 8	38 8	28	19 0	—0 4	12 5	4	24 1	33 6	+15·2	18 5	30	2	0	6 7	4 0	—0 2	0	6	0	0	2	0	0	0	0	0	0
Nagpur (Sonegaon)	35 4	—1 1	39 4	28	18 4	—0 8	11 2	4	0	2 7	—12 5	2 5	2	1	—0 5	12 9	10·3	..	1	1	0	0	3	0	0	0	0	2	0
Amraoti	36 3	—0 1	39 9	28	20 9	+0 1	15 6	31	1 4	2 8	—6 1	1 4	11	0	—0 8	14 6	11 2	+4 4	0	3	0	0	0	0	0	0	0	0	0
Akola Aerodrome	36 7		40 0	28	18 7		13 6	21	0	0	..	0		0	.	10 9	9 7	..	0	0	0	0	0	0	0	0	0	0	0
Akola	36 7	—0 4	39 4	17	19 7	+0 8	13 8	3	0	0 1	—9 0	0 1	6	0	—0 7	9 5	6 7	+0 9	1	0	0	0	1	0	0	0	0	0	0
Bramhapuri	35 5		39 6	28	.				0	3 0		3 0	2	1	..	8 9	5 1	..	0	1	0	0	0	0	0	0	0	0	0
Buldana	32 3	—1 9	36 6	28	19 5	—2 1	16 8	21	0	1 0	—5 3	1 0	6	0	—0 7	10 5	9 4	+0 3	0	1	0	0	1	0	0	0	0	0	0
Yeotmal	35 8	—0 3	39 8	28	21 1	—0 3	17 1	21	0	5 4	—13 8	5 4	15	1	—0 7	14 5	11 0	+0 7	0	1	0	1	0	0	0	0	0	0	0
Chanda	36 7	—0 4	40 2	30	20 8	+1 4	14 1	4	0	0	—19 6	0	.	0	—1 2	8 7	5 6	+1·7	0	0	0	0	1	0	0	0	0	0	0
Pusad	37 0	.	40 4	28	19 3	..	11 8	9	3 2	3 2	.	3 2	15	1		10 8	6 7	..	0	1	0	0	0	0	0	0	0	0	0
Sironcha	36 6	—0 8	39 8	29	21 9	—0 3	17 7	25	0	14 2	—2 4	14 2	31	1	—0 1	9 5	5 6	+0 1	0	1	0	0	0	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Kalingapatnam	31 8	—0 8	33 8	5	21 8	—0 9	19 3	8	9 4	0	—11 2	0	.	0	—0 6	15 8	9 5	—0·6	0	0	0	0	1	0	0	0	0	0	0
Vishakhapatnam	33 9	—0 4	36 1	12	22 0	—0 7	17 9	4	0	0	—11 9	0		0	—0 8	.			0	0	0	0	4	0	0	0	0	0	0
Kakinada	33 4	+0·2	35 4	30	21 5	—1 6	19 6	5 days	0	0	—12 2	0		0	—0 7	11 5	8 3	+1·1	0	0	0	0	0	0	0	0	0	0	0
Nidadavole	33 5	.	35 6	25	21 6	.	19 0	4,0,13	0	0	.	0	.	0	.	5 7	4 8	.	0	0	0	0	1	0	0	0	0	0	0
Rentachintala	37 4	0	40 6	29	23 4	—0 8	21 0	5,19	0	0	—2 3	0		0	—0 3	8·2	7 7	—1 6	0	0	0	0	0	0	0	0	0	0	0
Gannavaram	34 7	—1 1	38 6	24	22 0	—0 3	18 9	12	10 9	4·5	—7 5	4 5	25	1	+0 5	16 2	10 8	+0·1	0	1	0	0	1	0	0	0	0	0	0
Nagarjunakonda	(R)																												
Masulipatam	31 0	—1 5	35 0	24	20 8	—1 6	18 6	12,16	0	0	—10 7	0		0	—0 5	4 9	2 9	—4·0	0	0	0	0	1	0	0	0	0	0	0
Ongole	34 0		39 4	24	23 6	.	20 3	10	0	0	.	0		0	..	12 7	9 0	..	0	0	0	0	0	0	0	0	0	0	0
Nellore	34 6	0	39 1	24	23 0	+0 3	20 3	9	0	0	—4 3	0		0	—0 3	13 3	(b) 9 0	+2·1	0	0	0	0	2	0	0	0	0	0	0
Telangana																													
Ramagundam	36 5	—0 9	39 4	29,30		.	.		0	0	—10 8	0	.	0	—0 9	6 4	4 7	—2 3	0	0	0	0	0	0	0	0	0	0	0
Nizamabad	37 2	+0 4	39 9	29	21 5	+1 0	16 5	22	0	0	—10 2	0	.	0	—0 8	8 4	5 9	+1 6	0	0	0	0	0	0	0	0	0	0	0
Hanamkonda	35 9	+0 3	39 1	29	21 1	—0 7	18 8	31	5 8	19 2	+7 5	13 4	31	2	+1 2	10 3	10 9	+2 5	0	2	0	0	2	0	0	0	0	0	0
Hakimpet (Aerodrome)	34 2	.	36 7	29	20 6		18 4	2	0	2 0	.	2·0	31	0	..	.	.	.	0	1	0	0	3	0	0	0	0	0	0
Bhadrachalam	36 9	—0 3	39 0	28	22 8	0	18 8	4	15 0	0	—8 3	0	.	0	—0 8	7 6	7 9	—0 4	0	0	0	0	0	0	0	0	0	0	0
Hyderabad (Begampet)	35 1	0	37 2	29	19 0	—0 6	15 3	22	0	3 9	—7 8	2 1	31	0	—0 9	12 8	9 6	+1·2	0	2	0	0	2	0	0	0	0	0	0
Khammam	36 3	..	38 9	29	22 9		20 3	13	28 0	4 4	.	4 4	31	1	.	7 6	7 3	.	0	1	0	0	2	0	1	0	0	0	0
Mahbubnagar	35 3		37·5	28	20 7		17 9	21	0	1 2		1 2	29	0	.	7 8	7 0	..	0	1	0	0	1	0	0	0	0	0	0
Rayala Seema																													
Kurnool	6·7	—1 1	39 3	28	22 1	—0 1	18 7	10	0	0	—5 3	0	.	0	—0 4	8 9	7 5	+1 2	0	0	0	0	0	0	0	0	0	0	0
Anantapur	6 5	—0 3	38 7	29	21·6	—0 1	18 0	1	0	0	—3 9	0	..	0	—0 3	9 5	10 2	+0·7	0	0	0	0	1	0	0	0	0	0	0
Cuddapah	37 8	—0 5	40 8	29	23·3	—0 5	19 1	7	0	0	—4 6	0		0	—0 3	5 2	3·7	—8 5	0	0	0	0	0	0	0	0	0	0	0
Arogyavaram	33 3		35 6	29	18 3		15 0	8	12 8	12 8		12 8	31	1		12 7	9·1	.	0	1	0	0	0	0	0	0	0	0	0

(d) Total for 27 days. (R) Register not received. (b) Total for 29 days. (e) Mean of 26 days. (g) Mean of 23 days.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MARCH 1965 (PHALGUNA 10, 1886—CHAITRA 10, 1887 SAKA)

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No of rainy days (2·5 mm or more)		Wind speed kms per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2mm)	Precipitation (0·3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Madras State (including pondicherry)																													
Madras	31 8		34 7	25	23 1		20 2	9	2 8	0		0		0	.	10 7	7 0		0	0	0	0	0	0	0	0	0	0	0
Madras (Minambakkam)	33 1	+0 1	36 2	24,25	23 3	+0 9	20 8	9,10	25 6	0	−7 4	0		0.4	−0 4	14 4	9 8	−0 8	0	0	0	0	1	0	0	0	0	0	0
Vellore .	34 8	+0 2	38 4	24	21 1	+0 1	17 3	18	6 2	0	−6 9	0		0	−0 5	10 3	8 9	+3 9	0	0	0	0	1	0	0	0	0	0	0
Tambaram (Aerodrome)	34 7		38 3	24	22 6		19 9	10	78 6	0		0		0					0	9	0	0	1	0	0	0	0	0	0
Tiruppattur	34 1	..	36 3	26	18 4	.	13 3	7	0	0	..	0		1	.	3 7	4 2	.	0	0	0	0	0	0	0	0	0	0	0
Mettur Dam R.S	36 3	.	37 9	18	21 7	..	18 0	1	0	20 8	.	20 3	21	1		7 0	8 1		0	2	0	0	1	0	0	0	0	0	0
Cuddalore	31 2	−0 1	33 1	29	22 7	+0 1	19 0	10	0	0	−17 5	0		0	−0 6	14 0	9 7	+3 1	0	0	0	0	0	0	0	0	0	0	0
Kallakkurichchi	35 9		38 7	25	22 0		18 2	7	0	0	−10 2	0		0	−0 5	7 5	5 5		0	0	0	0	0	0	0	0	0	0	0
Salem .	35 4	−1 3	37 4	25	22 4	+0·5	18 3	6	0	0 2	−12 3	0 2	26	0	−0 9	10 1	10 3	+3 1	1	0	0	0	2	0	0	0	0	0	0
Coimbatore (Pilamedu) .	34 5	..	36 1	25	20 2	.	17 0	1	0	0		0		0	.	14 6	13 7		0	0	0	0	4	0	0	0	0	0	0
Coimbatore .	34 4	−0 8	36 6	28	20 2	−1 0	17 2	7	.	1 6	−11 1	1 6	5	0	−0 9	.	6 9	+2 9	0	1	0	0	2	0	0	0	0	0	0
Nagappattinam	31 0	−0 2	33 4	23	24 8	+0 2	21 0	10	0	0	−20 1	0	..	0	−1 0	16 5	15 4	+5 3	0	0	0	0	0	0	0	0	0	0	0
Tiruchchirapalli	35 1	−0 7	37 7	31	22 8	+0 5	18 8	7	10 8	0 6	−8 5	0 6	4	0	−0 7	11 8	10 6	+3 0	0	1	0	0	1	0	0	0	0	0	0
Vedaranniyam	33 1	..	36 4	28	23 8	.	20 1	13	0	0		0		0				.	0	0	0	0	0	0	0	0	0	0	0
Attirampattinam	32 4	..	33 4	1,3	23 8	.	19 4	10	7 8	8 8		7 8	3	1		15 2	11·9		0	1	0	0	0	0	0	0	0	0	0
Madurai	34 7	−0 5	37 1	23	23 0	+0 5	20 2	7	.	15 2	−2 6	15 2	3	1	0	.	5 1	−0 4	0	1	0	0	2	0	0	0	0	0	0
Madurai(Aerodrome)	35 1	.	37 1	25	22 3	.	18 8	7	0	0		0		0		10 2	8 5	.	0	0	0	0	4	0	0	0	0	0	0
Pondi . .	30 6	..	32 4	29	24 6	.	21 0	10	0	0	.	0		0		18 0	17 2		0	0	0	0	0	0	0	0	0	0	0
Pamban .	31 4	0	33 7	21	24 9	+0 1	21 5	10	32 2	32 2	+13.9	32 2	3	1	−0 4	10 3	12 0	+3 1	0	1	0	0	0	0	0	0	0	0	0
Tuticorin .	29·7	0	33 6	24	23 7	−1 2	20 8	8	0	10 7	−18 9	10 7	3	1	−0 3	21 7	17 8	+1 4	0	1	0	0	0	0	0	0	0	0	0
Palayancottai	36 3	+1 3	38 8	24	23 4	−1 0	20 9	8	0	4 6	−24 3	4 2	3	1	−1 0	10 9	7 2	−0 7	0	1	0	0	3	0	0	0	0	0	0
Kanniyakumari	31 9	.	33 2	24,25	24 6	.	22 4	1	0	0	..	0		0		21 6	16 2		0	0	0	0	0	0	0	0	0	0	0
Coastal Mysore																													
Karwar .	30 6	−0 3	31 8	15	21·4	−1 1	19·1	1	0	0	−0 3	0		0	0	15 8	11 2	.	0	0	0	0	0	0	0	0	0	0	0
Honavar	31 2	−1·0	32 9	18	22 3	−0 6	19 9	3	0	0	−0 3	0		0	0		..	..	0	0	0	0	0	0	0	0	0	0	0
Mangalore (Bajpe)	32 3	..	34 1	3	23·4	..	20·4	23	0	0		0		0	.	12 0	6 9	.	0	0	0	0	0	0	0	0	0	0	0
Mangalore	32 2	+0 2	33 3	12	23·9	−0 4	21 0	23	0	0	−5·3	0		0	−0 3	11 8	9 2	+1 3	0	0	0	0	0	0	0	0	0	0	0
Interior Mysore, North																													
Bidar .	34 6	−0 3	37 0	28	22 1	0	20 5	20	0	0	−11 9	0	..	0	−1 1	14 0	13 0	+3 0	0	0	0	0	0	0	0	0	0	0	0
Gulbarga	36 7	−0 6	38 8	30	21 2	−0 2	17 2	23	0	0	−9 4	0	.	0	−0 8	13 3	9 8	+0 6	0	0	0	0	0	4	0	0	0	0	0
Bijapur .	36·5	+0 4	38·7	29	21 2	0	16 4	22	0	0	−5 3	0	..	0	−0 6	7 2	5 7	−0 7	0	0	0	0	0	0	0	0	0	0	0
Raichur	36 7	−0 2	31 5	29	23 1	−0 1	20 2	7	0	0	−3 6	0		0	−0 4	11 0	11·5	+2 6	0	0	0	0	0	0	0	0	0	0	0
Belgaum .	34 4	−0 9	36 6	28	17·5	−0·6	12 1	22	0	3 6	−6 8	3 6	6	1	+0 1	5 7	3·4	−3 3	0	1	0	0	2	0	0	0	0	0	0
Belgaum (Sambra)	33·9		36 2	28	18·2		10 2	22	0	0	..	0		0	.	10 0	7 5	.	0	0	0	0	2	0	0	0	0	0	0
Gadag . .	35 8	+0 5	37 6	28	20 6	+0 2	14 9	22	0	1 5	−4 1	1 5	14	0	−0 7	8 5	7·5	−0 4	0	1	0	0	1	0	0	0	0	0	0
Interior Mysore, South																													
Bellary .	37·4	−0 1	38 7	26	22 6	+0 2	20 1	22	0	0	−5 3	0	..	0	−0 6	8 7	6 9	+1 6	0	0	0	0	0	0	0	0	0	0	0
Chitradurga	34 5	−0 4	35 6	28	21 2	−0 1	17 3	23	0	0	−4 3	0	.	0	−0 4	7 7	7 5	+1 2	0	0	0	0	0	0	0	0	0	0	0
Shimoga	33 7	−1 6	35 1	6	18 2	−0 9	15·5	23	7 8	11 2	+0 7	7 8	29	2	+1 1	4 4	3 2	−1 7	0	8	0	0	2	19	0	0	0	0	0
Agumbe	29 7	.	31 2	16	16 3		11 2	23	.	1 6	.	1 6	28	0	.	.	2 9	.	0	1	0	0	0	0	0	0	0	0	0
Balehonnur .	32 1	+1·3	34 0	10	17 0	−0 1	13 7	23		50 7	+9·2	36 0	29	2	+0 2	.			0	3	0	1	5	7	0	0	0	0	0
Hassan . .	32 9	−0 2	34 5	20	17·1	−0 2	14 3	23	0	0	−9 4	0	..	0	−0 6	7 0	5 7	+0 6	0	10	0	0	0	0	0	0	0	0	0
Bangalore	32 0	−0 4	33 3	25,26	19 0	+0 9	16 3	11	0	0	−10 2	0	..	0	−0 8	12 2	[9·3	+2 1	0	1	0	0	1	0	0	0	0	0	0
Bangalore (Aerodrome)	31 9	.	33 7	29	17·4		14 6	10	1 2	1.2	..	1.2	27	0	.	..	..		0	1	0	0	1	0	0	0	0	0	0
Mysore .	33·2	−1·1	34 5	26,27 28	19·3	−0 5	16 1	1	0	1.4	−11 5	1 4	31	0	−0 8	13 2	9 3	+1 9	0	1	0	0	3	0	0	0	0	0	0
Kerala																													
Calicut . .	32 5	+0 2	33 5	30	24·4	−0·1	23·0	2	0	0	−17 3	0	..	0	−0 8	16 2	13·1	+2·5	0	0	0	0	1	0	0	0	0	0	0
Palghat .	36 9	..	39 0	18	23·1	.	20·6	2	0	10·8	..	10 8	30	1	..	12 3	9 1	.	0	1	0	0	3	0	0	0	0	0	0
Fort Cochin .	31 6	+0.5	32·7	12,16	24 0	−1 6	22·3	6	2·0	69 5	+18 4	24 4	5	4	+1 2	15 2	10 8	+1·9	0	6	0	0	4	0	0	0	0	0	0
Cochin (Naval Air Station)	32.2	..	33·3	17	24 2	.	22·2	31	7·3	25 5	.	15 9	31	2	.	13 5	9 1	.	0	4	0	0	9	0	0	0	0	0	0

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MARCH, 1965 (PHALGUNA 10,1886—CHAITRA 10, 1837 SAKA)

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No of rainy days (2 5 mm. or more)		Wind speed, km per hour			Weather phenomena—No of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0 1 and 0 4mm)	Precipitation (0 3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Kerala—(Contd)																													
Alleppey	32 6	+0 1	33 3	17	24 6	−0 5	22 5	14	0	16 0	−60 6	4 8	19	2	−2 2	18 3	12 4	+0 9	0	5	0	0	5	0	0	0	0	0	0
Punalur	35 4	.	37 3	17	21 7	.	19·0	6	8 8	27 0		6 2	27	2		3 8	4 8		0	6	0	0	0	0	0	0	0	0	0
Trivandrum	32 4	0	34 4	16	23 8	−0 4	21 4	1,7	0 2	14 2	−24 9	8 8	28	2	−0 5	12 5	8 4	+2 3	0	4	0	0	10	0	0	0	0	0	0
Trivandrum Aerodrome	31 6		32 7	21	23 3		20 0	1,7		43 4	.	40 2	31	2	.		7 1		0	2	0	0	9	0	0	0	0	0	0
Arabian Sea Islands																													
Amini	32 6	+0 5	33 6	21	25·1	−0 3	22 8	23	0	0	−4 1	0		0	−0 2	9 1	9 5	+1 3	0	0	0	0	0	0	0	0	0	0	0
Minicoy	30 7	+0 5	31 2	16	24 0	−0 9	21 6	9	0 8	0 8	−21 5	0 8	5	0	−1 5	8 7	5 7	−1 4	0	1	0	0	1	0	0	0	0	0	0
Hill Stations excluding Kashmir																													
Dalhousie	16 8	−0 9	23 0	27	4 6	−3 4	0	20	49 0	147 0	+18 1	45 0	19	8	+1 6	4 3	5 6	−0 3	0	12	1	1	9	0	0	0	0	0	0
Dharmsala	20.2	−0 9	24 9	18	10 6	−2 2	4.8	20	44 2	79 8	−38 5	27 8	20	7	+0 5	4 5	4 0	−2 0	1	10	0	0	8	0	0	0	0	0	0
Simla	12.6	−1 3	20 4	11, 12	..		..	.	41 1	65 4	+5 5	21 0	20	6	+1 3	4 7	3 5	+0 6	0	8	6	0	6	0	0	0	0	0	0
Dharmpur	..	.	.	.						54 0	+6 0	25 6	20	4	+1 1				0	5			.						
Lokpal	4 7	.	−9 0	5	−11 3	.	−12 2	12		423 0		45 6	19	17	.		.		0	17	0	0	0	4	0	0	0	0	0
Badrinath									Closed during winter months																				
Joshimath	6 6		22 2	14	5 6	.	1 1	20	60.5	132 3	.	32 4	20	11		8 9	9 8		0	11	3	0	1	0	0	0	0	0	0
Mussoorie	15 1	−0.3	20 6	6	5 2	−1 9	−0 4	20,23	35.0	95 2	+37 8	28 0	19	6	+2 3	13 6	11 5	+3 9	0	6	0	1	6	0	0	0	0	0	0
Mukteswar (Kumaun)	14.5	−0 7	19 5	17	4 3	−1 6	−1 3	23	23 4	61 8	+13 5	25 0	20	5	+0 9	14 9	14 0	+3 9	1	9	2	4	11	4	0	0	0	0	0
Nainital	14 6	−2 1	20 8	28	5 8	−2 1	1 0	24	59 0	123 0	+69 3	32 0	24	7	+2 9	12 1	8 7	+0 8	0	8	2	0	0	0	0	0	0	0	0
Kalimpong	21 2	+0 4	24 5	17	12 1	−0 5	3 8	2	5 0	6 0	−22 2	5 0	20	1	−2 0	17 2	13 7	+1 3	1	3	0	0	0	0	0	0	0	0	0
Darjeeling	15 1	+1 3	19 7	17	7 7	+0 6	3 6	4	11 2	34 8	−12 9	10 4	24	4	+0 4	3 7	3 5	+0 8	0	5	1	0	2	3	0	0	0	0	0
Kohima	20 5		23 6	19	11 7		6 7	4 days	6 4 (a)	24 1		9 8	4	4		(a)			0	7	0	0	0	0	0	0	0	0	0
Shillong	21.5	+0 2	25 0	17	8 9	−1 5	4 0	5	22 3	86 9	+36 9	33 3	30	4	+0 1	4 0	3 6	−3 2	0	5	0	0	1	0	0	0	0	0	0
Cherrapunji (R)																													
Abu	25 4	+0 6	30 6	16,17	11 4	−4 7	7 2	20	0	1 0 (c)	−3 3	1 0	31	0	−0 5	22 4 (d)	10 7 (f)	+2 5	0	1	0	0	0	0	0	0	0	0	0
Aijal	24 5	.	27 8	18,22, 23	12.6		11 7	24 26	0	20 2		.		.		7 2	6 2		.		0	0	0	0	0	0	0	0	0
Pachmarhi	28 2	−0 7	31 5	17	13 6	−1 6	8 4	3	0 4	7 3	−6 9	6 0	7	1	−0 3	7 0	4 5	−1 1	0	4	0	0	2	0	0	0	0	0	0
Mahabaleshwar	23 5	+0 5	31 6	28	16 3	−0 7	12 2	23	0	0	−4 3	0	.	0	−0 4	12 4	12 6	+2 0	0	0	0	0	0	0	0	0	0	0	0
Mercara	29 4	+0 4	32 5	14	15 9	−0 5	13 0	23	1.0	6 0	−19 3	5 0	31	1	−0 6	10 7	8 0	+3 0	0	2	0	0	5	0	0	0	0	0	0
Ootacamand(R)																													
Coonoor (R)																													
Kodaikanal	19 4	+0.4	22 6	19	9 7	−0 4	7.1	6	18 4	31 6	−14 4	15 0	21	3	−0 1	11 6	10 9	−2 3	1	3	0	0	3	0	0	0	0	0	0
Nepal																													
Katmandu	23 7	..	27.6	18	5 2		0	4	6 0	16 5	.	7.0	19	3	.	2,8	1 5	.	0	4	0	0	5	1	0	1	0	0	0
Sikkim																													
Lachen	10.4		15.0	17	0 5	.	−3 0	5	.	146 1	.	18 0	28	14				..	0	14	0	0	0	0	0	0	0	0	0
HYDROMETEOROLOGICAL OBSERVATORIES: Damodar Catchment:																													
Tilaiya	31 1	.	34 5	19	15 5	.	10 6	5,6	5 6	11 5		5 5	30	2		11,9	7 2	..	1	4	0	1	1	0	0	0	0	0	0
Hazaribagh	29 6	.	33 6	19	14 2		9 4	4	1 3	19 3	.	12 2	30	2		11 4	6 5	..	1	5	0	1	6	0	1	0	0	0	0
Kumar	31 1	.	34 6	18	15 0	.	11 5	4	14 8	24 7		13 8	22	2	.	12 0	8.3	.	1	5	0	0	0	0	0	0	0	0	0
Bokaro	33 1		36 2	29	12 1	.	6 1	5	3 4	26 2	.	20 3	30	2		7 9	5 0	.	4	5	0	0	0	0	0	0	0	0	0
Maithon	32.7	..	37 3	19	14.1		8 9	5	28 5	50·9		25 3	24	3		.	.	.	0	5	0	0	4	0	0	0	0	0	0
Ramgarh (R)																													
Panchet Hills	32.3	.	36 3	19	17 6	.	13 9	1	31 1	71 8	.	36 3	30	4	.	4 9	3 7	.	0	4	0	0	0	0	0	0	0	0	0
Durgapur	32 9	..	36 8	19	18 1		13 9	5	3 8	65 5		19.2	24	4		9 7	7.2	.	0	6	0	0	2	5	1	0	0	0	0
Mahanadi Catchment:																													
Gmabahar	32 6	..	36.4	28	13 9	.	7.5	5		25 6	.	14 4	30	3		..		..	0	4	0	0	4	2	0	0	0	0	0
Hirakud	34 1	..	38 1	29	19·7	.	14 1	5	4 5	77 9	.	44.4	30	3	.	5 1	3 6		0	4	0	0	4	0	0	0	0	2	0
Bhimkund	33.5	.	36 9	28	17.1	..	12 1	5	50 0	87 8	..	63 0	30	4		7 3	3.5	..	0	4	0	0	8	0	0	0	0	0	0
Sonepur	34 6	..	39 0	29,30	21 4	..	17.5	3	..	41.5	..	11 5	21	5	.		5 3	.	0	7		..	..	..		..	..	..	..
Khijrawan	33 2		36 1	18,27	18.8	.	12.3	5	0	25 8	.	13 8	30	2	..	8 7	7 0	..	0	2	0	0	0	0	0	0	0	0	0

(R) Register not received. (f) Mean of 25 days. (c) Total or mean for 28 days. (d) Mean of 27 days (a) Mean of or total for 30 days.

TABLE II— SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MARCH, 1965 (PHALGUNA 10, 1886—CHAITRA 10, 1887 SAKA)

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No of rainy days (2·5 mm. or more)		Wind speed, km per hour			Weather phenomena—No of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2mm)	Precipitation (0·3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
HYDROMETEOROLOGICAL OBSERVATORIES— *(Contd)*																													
Narmada Catchment :																													
Bagra Tawa	35 1		38.6	18	15 6	.	11.8	22	6 4	6 8	..	6 8	19	1		7 7	4 1		0	1	0	1	1	0	0	0	0	0	0
Punasa (R)																													
Thikri	36 4		40	17	18 9	.	15.2	1	..	1 6	..	1 6	31	0					0	1	0	0	0	0	0	0	0	0	0
Sabarmati Catchment :																													
Daroi .	34 3		38 4	16	15 7	..	12 2	20	..	0	.	0	..	0	,		.		0	0	.	.	.			.	..		
Gandak Catchment :																													
Jomosom	13 9 (1)	.	17·8	18	0 4 (1)	..	−5 4	2	18 6	84 5	..	22 9	2	9					0	9	..				..		.		
Khudi Bazar	25 3		29 6	19	14 1	.	6.2	20		70 8	.	17 6	19	9				-	0	13		.	.	.					
Tumure .	20 3	.	24 1	18		..	.	..	8 0	66 0	..	25 0	27	4				.	0	9	.	.				.		.	.
Pokhara .	25 5		29 4	19	12 0	..	7 2	4	3·2	17 6	..	8 8	21	1	.	6 4	5 7		1	8	0	2	13	0	2	0	0	0	0
Gorkha	24 5		28 2	19	13 9	..	9 1	4	7 5	20 2	.	6·3	31	3			..	..	0	6	0	0	5	0	0	0	0	0	0
Nuwakot	26 1	.	30 8	28	13 3	..	8·5	4	6 4	15 2	..	5 0	31	3	.	.	..	.	0	5	..						.	..	
Ghaghara Catchment : (Trans Himalayan Region)																													
Dailekh	21 4		24 4	23	11 7	..	8·1	5	15·4	40·4		25 0	23	4	..		..		0	4									
Ghaghara Catchment :																													
Dadeldhura	15 6 (a)		20 3	18	6 8 (g)	..	1·7	23	34·9	125·4		73 8	20	5	..	8·2	7 0		1	8	0	1	8	5	0	0	0	0	0
Sallayana	21 7		26 0	18,19	10 2	..	6·0	4	12 0	40 9		9 8	23	6	..	..	.	.	0	7			.				..		
Butwal	30·4	.	33 9	3days	17 5	.	12 4	24	2·0	9 4		6 0	31	2	.	..	..		0	2						.	.	...	
Baghmati Catchment :																													
Katmandu†																													
Kosi Catchment :																													
Chautara	23 4		27 2	19	10 0	..	5 7	4	6·8	17·2		7 8	19	3	..				0	4	.		.	.		.		..	
Walungchung Gola	6 7	.	10 1	17	−2 1	..	−7 5	4	0·5	75 6		23 9	20	9	..		..		0	11	.			,	.		.	.	..
Taplethok .	24 1	..	27 5	18	9 9	..	5 3	4	0	80 8	.	20 0	27	9	.	..	.		0	11				,	.				..
Bhojpur .	18 6		23 6	12	10 5 (a)	..	5 3	24	23 5	34 0	.	10 0	24	4	..			.	0	4			..		..		.		..
Taplejung .	18 1	.	21·5	18,19	7 8	..	4 0	24	28 9	78 3	..	20 2	30	9	.	8 4	6 5	.	0	9	0	0	3	1	0	0	0	0	0
Okhaldhunga .	18·5		24 2	19	8 2	..	3 7	24	27 0	45 9	.	23 6	31	4	..	7 3	5 2	.	1	6	0	1	6	0	0	0	0	0	0
Champur .		.	.	..	..	..	..	..	19 4	23 2		8 0	31	4			.		0	5				.		.	..	..	..
Angbung		.		..	.	..	..	..	11 5	57 4	..	21 5	31	8	..	.		.	0	9	.			.	.	.	.	..	.
Barahakshetra	29 9	.	33·8	19	15 7	.	11·7	1	26 2	36·8	..	26·1	24	2		8 6	5 4	..	1	3	0	1	5	0	0	0	0	0	0
Tista Catchment :																													
Gangtok	18 9		22 3	17	7·6	..	3 0	4	25 0	91 6	.	26 6	28	8		6 6	5·3		3	10	0	1	5	3	0	0	0	10	0
Gezing .	21 6		26 1	17	8 5		4 1	4	4 3	42 0	.	11 4	28	6			..		0	7									

† Data included under 'Nepal'. (a) Mean of 30 days (R) Register not received (g) Mean of 24 days . (l) Mean of 19 days

Sub-Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas)		Mean wind speed in Km per hour	Wind speed (Kms p h.)			No of observations									
			At mean sea level or height in 6.0 m. of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point				Mean amount	Departure from normal		62 or more	20 to 61	1 to 19	Wind direction									
																		N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Sub-Himalayan West Bengal—(*Contd*)																											
Malda	0830	31	1013 3	1009 6	+1 8	23 2	16·8	11 9	13 9	50	+1	2 3	+1 2	1 9	0	0	19	1	3	2	1	1	5	3	2	12	1
	1730	,,	1008 6	1005 0		28 7	13 4	10 6	12 8	34	..	1 9	.	2 0	0	0	22	1	3	2	1	1	1	4	9	9	0
Gangetic West Bengal																											
Berhampore	0830	19	1013 3	1011 1	+1 4	23 5	18 3	14 8	16 8	59	—1	2·4	+0 2	2 5	0	0	27	1	0	3	1	12	2	8	0	4	0
	1730	,,	1008 3	1006 2	..	28 7	19 7	13 2	15 2	41	..	2 7		2 1	0	0	20	1	0	1	0	12	2	4	0	11	0
Suri	0830					24 6	17 0	11 1	13 2	44	.	2 2	.	3 5	0	0	31	3	2	3	1	9	0	11	2	0	0
Asansol	0230	126	1010 7	996 0		18 0	14 9	12 5	14 5	65		1 2		2 8	0	1	11	0	0	0	0	1	2	6	3	19	0
	0530	,,	1011 5	996 7		17 1	14 4	12 2	14 2	74		2 5	.	2 9	0	1	14	2	0	0	0	2	0	8	3	16	0
	0830	,,	1013 4	999 0	+1 9	24 2	17 4	12 4	14 4	49	+3	2 5	+0 7	5 6	0	0	29	4	5	0	1	2	2	10	5	2	0
	1130	,,	1012 3	998 1		29 9	18 5	9 7	12 0	31		2 3		8 4	0	0	30	5	5	2	1	4	1	8	4	1	0
	1430	,,	1009 3	995 0		31 9	19 1	9 5	11 9	26		2 4	.	8 6	0	1	29	3	3	1	0	4	3	6	10	1	0
	1730	,,	1008 6	994 5		29 2	18 7	10 9	13 0	33	..	2 4	.	4 6	0	0	21	1	4	1	4	3	2	3	3	10	0
	2330	,,	1011 8	997 3		20 1	15 9	12 5	14 5	63	.	1 6	..	5 5	0	2	19	0	1	1	1	6	2	5	5	10	0
Shanti Niketan	0830	59	1013 6	1006 9		23 6	17 2	12 4	14 4	49		2 4	..	4 0	0	0	25	4	5	0	2	5	2	2	5	6	0
	1130	,,	1012 8	1006 1		29 5	18 5	10 2	12 4	33	.	2 1	.	3 9	0	0	25	5	4	1	1	4	3	3	4	6	0
	1730	,,	1009 0	1002 3		28 5	18 3	10 5	12 7	35	.	2 4		3 2	0	0	19	2	1	0	0	7	3	2	4	12	0
Krishnanagar	0830	15	1013·6	1011 9	+1 9	24 6	19 4	16 1	18 3	60	—3	1 3	—1 1	1 5	0	0	10	0	0	0	2	6	1	1	0	21	0
	1730	,,	1008 9	1007 3	.	28 9	20 2	14 6	16 6	44	..	1 5	.	0 3	0	0	4	0	0	0	0	3	1	0	0	27	0
Purulia	0830	255	1013 5	984 5	+0 8	22 8	15 9	10 3	12 5	46	+1	2 8	+0 9	2·6	0	0	24	4	2	0	0	2	4	5	7	7	0
	1730	,,	1008 4	980 2		30 3	18 8	12 6	14 7	30	.	3 0		2 2	0	0	24	1	5	3	1	4	1	4	5	7	0
Bankura	0830	100	1013 0	1001 5	.	22 9	17 7	14 0	16 0	59	..	1 9		1 2	0	0	16	0	3	0	1	1	3	3	4	15	1
	1730	,,	1008 2	997 1	..	30 7	20 1	13 0	15 0	35		1 5	.	1 7	0	0	16	0	3	1	3	0	4	1	4	15	0
Burdwan	0830	32	1013 0	1009 4	+1 4	24 9	18 7	14 5	16 5	51	—12	1 4	—0 9	0 7	0	0	8	1	0	1	0	2	2	1	1	23	0
	1730	,,	1008·5	1004 9		30 5	20 1	13 0	15 0	36	.	1 5	.	2 5	0	0	13	1	1	4	0	6	1	0	0	16	0
Barrackpore (Aerodrome)	0530	7	1011 1	1010 3	..	18 8	18 0	17 0	19 4	89	.	3 1		3 5	0	0	20	1	2	3	1	5	4	3	1	11	0
	0830	,,	1013·5	1012 7	+1 5	24 7	20 6	18 3	21 0	68	0	2 1	—0 2	7 0	0	0	26	1	1	3	1	3	8	6	3	5	0
	1130	,,	1012 5	1011 7	.	29 9	20 8	15 1	17 1	42	.	2 3	.	9 4	0	1	29	1	2	2	1	3	8	9	4	1	0
	1730	,,	1009 2	1008 4		28 4	20 8	17 2	18 4	49	.	2 5		7·3	0	0	30	7	1	0	2	5	8	3	4	1	0
	2330	,,	1011 2	1010 4	.	21 8	19 2	17 6	20 1	77	.	1 7	.	8 0	0	2	28	1	0	1	0	5	15	1	2	6	0
Calcutta (Dum Dum)	0230	6	1010 3	1009 6	.	20 6	19 4	18 7	21 6	89	.	1 7	..	4 1	0	1	21	1	2	1	2	4	8	1	3	9	0
	0530	,,	1010 9	1010 2	.	19 3	18 5	18 0	21 3	92		2 5		1 9	0	0	14	0	0	1	5	3	4	0	1	17	0
	0830	,,	1013 2	1012 5	+1 3	24 4	20 8	18 8	21 7	72	+3	2 3	—0 2	4 5	0	0	25	2	2	0	2	5	10	0	4	6	0
	1130	,,	1012·2	1011 5	.	30 1	21 6	16 5	18 8	46	..	2 7	.	7 2	0	0	31	4	2	2	1	2	10	1	8	0	1
	1430	,,	1009·3	1008 6	.	31 9	21 9	15 7	17·8	40	.	2 8	.	6 6	0	1	30	3	1	2	2	6	8	2	7	0	0
	1730	,,	1009 0	1008 3	..	28 8	21 4	17·1	19 5	51		2 3	. .	5 2	0	1	22	2	0	0	2	10	6	1	2	8	0
	2030	,,	1010·9	1010 2	.	21 8	20 4	18 4	21 1	72		1 5	.	5 0	0	0	27	1	1	1	6	11	5	2	0	4	0
	2330	,,	1011 2	1010 5		21·8	20 1	19 1	22 1	85	.	1 9		5 2	0	0	24	0	1	1	4	10	5	1	2	7	0
Calcutta	0830	6	1012 9	1012 2	+1 1	25 3	20·8	18 2	20·9	66	—10	2 0	—0 2	2 7	0	0	24	1	1	1	1	6	5	2	7	7	0
	1130	,,	1012 0	1011 3	.	30 6	21 0	15 0	17·0	40	.	2 0	. .	2 8	0	0	25	2	4	0	0	3	8	3	5	6	0
	1730	,,	1008 7	1008 0	..	28 9	20 2	14 6	16·6	43	..	2 3	..	4 2	0	1	22	3	1	0	1	8	6	1	3	8	0
Midnapore	0830	45	1013·0	1007 8	+1 2	24 0	19 0	15 8	17·9	61	+2	1 5	—0 3	1 3	0	0	18	6	2	1	0	4	2	2	1	13	0
	1730	,,	1008 8	1003 7	..	30 3	19 4	11 6	13 7	35	..	1 9	..	4 7	0	1	24	3	9	0	1	7	2	0	3	6	0
Contai	0830	11	1013 1	1011 8	+1 4	25 8	22 0	20 0	23·4	71	+3	1 6	—0 7	8 0	0	0	30	5	0	0	2	6	13	4½	0	1	0
	1730	,,	1009 2	1008 0		26 5	22 5	20 4	24 0	71		1 6	..	11·8	0	6	25	0	1	0	5	22	2	1½	0	0	0
Sagar Island	0830	3	1012 8	1012 5	—1 0	25 8	22 9	21 5	25 6	78	+5	2 5	—0 5	14 3	0	10	21	1	2	2	2	4	11	6	3	0	0
	1730	,,	1009·2	1008 9		26 5	22 9	21 0	24 9	73	.	2 5	.	18 3	0	13	18	1	0	0	4	15	10	1	0	0	0
Sandheads	0530	10	1010 6	1009 5	.	24 8	22 7	21 7	25 9	83	.	2·2	.	15·5	0	7	23	2	1	1	0	5	16	3	2	1	0
	0830	,,	1013 2	1012 1	+1 0	28·0	24 0	22 1	26 6	71	—3	1 6	—0 6	12·7	0	4	25	1	1	0	0	3	20	2	2	2	0
	1130	,,	1012 8	1011 7		30 0	24 9	22 5	27 3	64		1 5	.	9 8	0	6	22	1	1	0	0	4	18	2	2	3	0
	1730	,,	1009 4	1008·3		26 9	23 5	21 9	26 3	76	.	1·8	.	13 4	0	9	16	0	0	1	2	6	14	2	0	6	0
	2330	,,	1011·3	1010 2		25 4	23 4	22 4	27 1	83	..	..	..	13 2	0	5	24	0	0	0	2	8	19	0	0	2	0
Orissa Baripada	0830	54	1013·9	1007 7	.	24 7	19·7	16 6	18 9	61	.	1 5	.	2 1	0	0	18	5	5	1	0	2	2	0	2	13	1
	1730	,,	1009 6	1008 6	.	29 3	22 1	18 1	20 8	53	..	2 3	. .	3 9	0	0	23	2	1	1	6	8	2	1	1	8	1
Jharsuguda	0230	230	1010 2	983 9	.	20 5	15 4	11 3	13 4	56	.	1 7	..	2 0	0	0	11	2	3	1	4	0	1	0	0	20	0
	0530	,,	1011 1	984 5	..	18 6	14 7	11 5	13 6	64	..	2·4	..	2 9	0	0	14	7	3	2	0	0	1	0	1	17	0
	0830	,,	1013·1	986 9	+0 8	24 1	16 0	9 2	11 6	42	—5	2 3	+0 4	6 3	0	1	22	8	8	2	2	1	1	0	1	8	0
	1130	,,	1011·8	986·3		30 5	18 3	8 6	11 2	27	..	2 3	.	8 6	0	2	25	5	6	1	2	1	6	2	4	4	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas)		Wind speed (Km. p.h.)			No. of observations									
			At mean sea level or height in g p.m. of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point				Mean amount	Departure from normal	Mean wind speed in Km per hour	62 or more	20 to 61	1 to 19	Wind direction								Calm	Variable
																		N	NE	E	SE	S	SW	W	NW		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—*Contd.*																											
Jharsuguda (*Contd.*)	1730	230	1007·8	982·3	.	31·1	18·1	7 3	10 2	25	.	3 4		8 5	0	1	27	0	1	1	0	9	5	6	6	3	0
	2330	,,	1011 0	984 8	..	23·2	16 2	10 6	12 8	47		1 8		4 0	0	0	14	3	6	1	1	0	0	0	3	17	0
Keonjhargarh . .	0830	463	1013 5	961·9	.	24.7	19 7	17 0	19 4	63	..	1 2		1 5	0	0	19	1	0	4	2	0	0	11	1	12	0
	1730	,,	1008 4	957 9	..	29 5	21 9	18 1	20 8	50	.	1 4	.	1 8	0	0	28	4	1	1	3	0	1	14	4	3	0
Balasore .	0830	20	1012·7	1010 5	+0 8	25 5	21·2	18·7	21 6	67	0	2 3	+0 4	5 9	0	0	26	5	2	0	0	7	9	0	3	5	0
	1730	,,	1009 0	1006·7	.	27·0	22 7	20 5	24 1	68	.	3·0		10 1	0	3	27	1	1	0	10	16	2	0	0	1	0
Sambalpur .	0830	148	1013·1	996 3	+1 0	25 1	18 2	13 3	15 3	49	−2	1·5	+0 1	2 5	0	0	19	6	4	4	0	1	1	3	0	12	0
	1730	,,	1009 9	993 3	..	31·2	19 9	12 1	14 1	34		1 7	.	3 4	0	0	18	1	1	0	1	6	2	2	5	13	0
Angul . .	0830	139	1013 2	997 4	+1 1	24 2	19 3	16 2	18 4	61	+1	1 3	−1 0	3·2	0	0	27	3	4	5	1	1	0	11	2	4	0
	1730	,,	1008 5	993 0	..	32 1	21 6	15 1	17 1	38	.	3 1	..	4 1	0	0	28	4	4	1	3	3	7	4	2	3	0
Chandbali . .	0830	6	1013 5	1012 8	+1 6	25 4	22 2	20 5	24 1	75	−1	2 1	−0 5	5 3	0	1	28	1	2	2	4	2	12	1	5	2	0
	1730	,,	1009 9	1009 2		28 0	22 5	19 5	22 7	59		2 1		11 5	0	5	25	0	1	1	22	3	2	0	1	1	0
Bolangir . .	0830	190	1012·9	991 3	..	25·7	20 9	18 1	20 8	63	.	1 5	.	4 7	0	0	31	7	4	1	5	8	4	0	2	0	0
	1730	,,	1008·1	987 0		30 9	23 4	19 5	22·7	52	..	2 9	.	4 5	0	0	31	7	3	5	3	5	2	1	5	0	0
Phulbani .	0830	464	1011·6	959 3	..	21 5	16 9	13 9	15 9	62	..	0 6	..	0 6	0	0	9	2	0	2	4	0	0	1	0	22	0
	1730	,,	1006 1	955 6	..	29 0	18·9	12 5	14 5	38	..	2 3	..	1 2	0	0	13	3	1	1	1	2	2	2	1	18	0
Cuttack . . .	0830	27	1013 2	1010 1	+0 9	24 8	21 7	20 1	23 5	75	+2	1 6	−0 9	6 5	0	0	26	1	3	0	1	2	12	3	4	5	0
	1730	,,	1009 0	1006 0	..	31 3	22 0	16 5	18 8	43		1 9	..	8 9	0	0	27	0	0	1	2	15	4	2	3	4	0
Titlagarh. .	0830	211	1013 1	989·3	..	26 0	19 7	15 7	17 8	53		0 8	..	2 1	0	0	28	0	9	0	4	6	8	0	1	3	0
	1730	,,	1008 0	984 8	..	32 3	22 2	16 3	18·5	44	.	2 1	..	2 1	0	0	22	1	9	1	4	0	3	0	4	9	0
Bhubaneswar . .	0230	46	1010 6	1005·4	.	23 2	21 1	19 9	23 2	82		1 7	..	7 5	0	1	27	1	0	0	2	11	12	1	1	3	0
	0530	,,	1011·1	1005.8		22 0	20 7	20 0	23·4	89		2 0		7 2	0	3	23	3	2	0	0	6	9	4	2	5	0
	0830	,,	1013·2	1008 0	+1 2	26 5	22·0	19 5	22 7	66	−4	1 6	−0 7	12 2	0	5	26	3	3	1	0	4	16	2	2	0	0
	1130	,,	1012 3	1007·2	..	31·8	21 2	14 5	16 5	36	..	1 4	..	14 5	0	9	22	3	3	1	0	8	14	0	2	0	0
	1430	,,	1009·3	1004 1	..	33·3	20 6	11 9	13 9	30	.	1 9	..	14 5	0	9	22	1	3	2	0	12	9	2	2	0	0
	1730	,,	1009 3	1004·1	..	29·6	20 9	15 5	17·6	45	.	2 1	..	17 6	0	13	18	2	1	0	1	17	8	0	2	0	0
	2330	,,	1011·8	1006·6	..	24·5	21·9	20 5	24 1	79	.	2 2	..	13 2	0	5	26	0	0	0	1	10	17	1	2	0	0
Puri . . .	0830	6	1013 5	1012 8	+1 4	27·1	23·4	21 5	25 6	72	−5	2 0	−0 3	13 4	0	8	23	1	1	0	3	3	23	0	0	0	0
	1730	,,	1009·9	1009 2	..	27·2	23 8	22 3	26 7	75	.	1 9	..	14 6	0	6	23	0	0	0	4	17	8	0	0	2	0
Gopalpur . .	0530	17	1011.0	1009 0	.	22·7	21 0	20 0	23 4	85	..	2 2	..	4 8	0	3	11	0	1	0	0	2	7	3	1	17	0
	0830	,,	1013·2	1011 2	+1 2	25 8	22·1	20 1	23 5	72	−2	1 7	+0 7	6 1	0	2	23	4	0	1	0	5	10	2	3	6	0
	1130	,,	1012 8	1010 9	..	29 3	25·0	23·0	28 1	68	..	1 1	..	11·9	0	6	25	2	0	2	3	15	9	0	0	0	0
	1730	,,	1009 4	1007·4	..	27·2	24·8	23 7	29 3	81	..	2 8	..	13 8	0	9	22	0	0	0	2	14	15	0	0	0	0
	2330	,,	1011 9	1009 9	.	25·0	23 3	22 5	27·3	86	..	2 3	..	9 5	0	5	23	0	0	0	0	6	19	2	1	3	0
Koraput* . .	0830	913																									
	1730	,,																									
Bihar Plateau																											
Dumka . .	0830	149	1013 5	996 5	+1 8	23 4	16 9	11 9	13 9	49	+5	1 6	+0 4	3 5	0	0	18	1	3	1	6	0	3	4	0	19	0
	1730	,,	1008·3	991.7	.	29 2	18.7	10·7	12 9	34	.	1 3		3 2	0	0	17	0	0	0	4	1	3	4	5	14	0
Lohardaga	0830	221	1013 9	988 8	+1 7	22·5	15 8	10 3	12 5	49	−5	1 3	+0 1	2 4	0	0	27	5	4	3	4	3	4	2	1	4	1
	1730	,,	1007 8	983 2	..	30 0	18 0	8.2	10 9	27	.	1 7	..	4 5	0	0	30	5	1	0	0	3	5	6	10	1	0
Hazaribagh .	0830	611	1012 6	944 5	+1 2	22 2	13 6	6 0	9 3	36	0	2 4	+0 7	5 6	0	0	23	3	0	1	2	4	4	3	6	8	0
	1730	,,	1008 1	941 1	..	26·6	14 7	3 8	8 0	25	..	2 7	..	8 8	0	2	28	5	1	0	1	1	2	3	17	1	0
Dhanbad . .	0830	257	1012 8	983 5	..	23 3	16 1	10 3	12 5	45	..	1 5	.	1 3	0	0	12	0	3	1	1	0	1	3	1	19	2
	1730	,,	1008 1	989·5	.	28 9	18 1	9·9	12 2	33	.	1 3		1 5	0	0	12	1	1	0	1	1	0	2	6	19	0
Ranchi .	0830	655	1012·0	937.8	−1 0	16 9	12 7	9 2	11 6	60	+21	2 2	+0·6	1 3	0	0	20	4	2	4	0	2	0	0	8	11	0
	1730	,,	1007·8	935.9	..	24·9	17 8	13 3	15 3	50	..	3 0		1 7	0	0	27	12	1	4	0	2	0	3	5	4	0
Ranchi Aerodrome .	0530	652	1011 6	938 1	..	17·3	12 0	7 3	10 2	54		2 3		5 3	0	0	18	2	0	0	0	2	3	3	8	13	0
	0830	,,	1012 7	940 1	..	21 9	13 8	6 8	9 9	39	..	2 2	.	7 9	0	3	18	7	0	0	0	3	1	3	7	10	0
	1130	,,	1011·3	939 8	..	26 5	14 6	3 7	8·0	24		2 2	..	11 1	0	5	25	5	1	3	2	2	2	3	11	1	1
	1430	,,	1007 8	937·2	.	28 3	15 1	3 0	7 6	22	.	2 5	..	14 7	0	7	21	4	0	2	0	1	1	4	14	3	2
	1730	,,	1007 5	936·5	.	27 0	14 9	4 0	8 1	21	..	3 1	..	12 7	0	4	24	4	0	1	0	1	1	3	18	3	0
Jamshedpur . .	0830	129	1012 8	998·0	+0·9	22 6	16 5	11·8	13·8	51	−1	1·7	−0 1	1 8	0	0	21	2	1	2	1	0	1	4	10	10	0
	1730	,,	1007 6	993.3	..	31·7	20 4	12 8	14 8	32		2 2	..	3 5	0	0	26	5	4	4	3	0	1	3	6	5	0
Jamsedpur P.B.O.	0530	142	1011 3	994·8	..	17 8	14 6	12 0	14 0	68	..	1 9	..	1 9	0	0	9	3	0	1	0	0	0	2	3	22	0
	0830	,,	1013.2	997·0	.	23·9	16 8	11 3	13·4	46		2 1	.	3 9	0	0	22	0	1	2	0	1	3	10	5	9	0
	1130	,,	1011·9	996·1	..	29 6	18·4	9·8	12 1	28	..	2 0	..	6 6	0	0	29	5	2	2	1	3	3	8	5	2	0

* Data available for less than 15 days hence no means published.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plateau—*Contd.*																											
Jamshedpur (P.B.O.) (*Contd.*)	1430	142	1008 4	992 7		32 2	18 8	8 1	10 8	23	..	2 2	..	8 3	0	1	28	2	1	1	1	4	4	5	11	2	0
	1730	"	1007 9	992 2	.	30 6	18·4	8 5	11·1	26		2 6	.	6 3	0	1	26	2	6	4	1	0	3	3	8	4	0
	2330	"	1011 6	995 3		21 5	16 6	13 1	15 1	59	..	2 0	.	4 1	0	1	17	0	5	1	2	0	1	3	6	13	0
Chaibasa . .	0830	226	1013 0	987 2	+1 1	22 9	16 9	12 4	14 4	53	−5	2 7	+1 0	2·4	0	0	20	0	4	0	1	14	0	0	1	11	0
	1730	"	1007 7	982 5	.	30 3	18·3	9 5	11 9	27		2 9		2 8	0	0	18	0	4	0	1	0	7	0	6	13	0
Bihar Plains Motihari .	0830	66	1013 1	1005 4	+2 1	21·3	16 1	12 0	14·0	57	+3	1 2	+0 2	3 3	0	0	30	1	7	5	3	3	2	5	4	1	0
	1730	"	1008 2	1007 7	.	27 1	22·9	20 7	24 4	68		0 8		1 3	0	0	10	0	1	1	0	0	1	5	2	21	0
Forbesganj . .	0830	61	1013 3	1006 3	.	20 7	15 8	12 0	14 0	57	.	1 8		6 1	0	0	30	0	1	19	1	0	0	7	2	1	0
	1730	"	1008·3	1001 4		20 7	18 2	11 1	13 2	38		1 5		4 6	0	1	27	0	1	3	1	0	1	17	5	3	0
Darbhanga . .	0830	49	1014 0	1008 5	+2 8	24 7	17·5	12 1	14 1	46	−8	1 1	−0 2	2·1	0	0	17	1	2	7	2	0	1	3	1	14	0
	1730	"	1009 3	1003 7	..	28 4	19 0	12 3	14 3	39		0 7	..	0 6	0	0	8	0	0	2	0	0	1	4	1	23	0
Chapra . . .	0830	58	1013 0	1006 4		22 3	15·8	10 5	12 7	49		1 8		2 3	0	0	23	1	2	2	3	0	7	5	3	8	0
	1730	"	1008 9	1002 5		29 1	20 8	15 7	17 8	42		1 3		2·3	0	0	25	3	2	2	4	1	3	8	2	6	0
Purnea . . .	0830	38	1013 3	1008 9	+1 7	21 0	15 7	11 5	13 6	55	−5	1 4	0	2 8	0	0	25	3	3	8	0	0	7	4	0	6	0
	1730	"	1008 5	1004 3	..	27 7	17 6	9·6	11·9	32		1 5	.	2 4	0	0	19	1	0	1	1	2	5	9	0	12	0
Patna . . .	0830	53	1012 8	1006 7	+1 2	22 2	15 8	10 6	12 8	48	+2	1 9	+0 5	7 4	0	0	30	0	6	2	3	0	13	6	0	1	0
	1730	"	1003 5	1002 5	.	29 2	18 0	9 1	11 5	30	.	2 0		6 1	0	0	29	2	8	0	1	0	0	15	3	2	0
Patna Aerodrome .	0530	60	1010 3	1003 3		16 6	13 1	10 0	12 3	66	.	2 0	..	4 2	0	0	19	0	1	3	2	1	7	3	2	12	0
	0830	"	1012 5	1005 7	..	22·6	15 5	9 5	11 9	44		2 0		8 1	0	1	27	0	1	3	5	0	11	7	1	3	0
	1130	"	1011 9	1002 2		28 8	17 2	7 3	10 2	28	..	2 1	..	11 2	0	8	19	0	1	4	2	1	5	8	6	4	0
	1430	"	1008 8	1002 1	..	30 9	17 5	5 7	9 1	21	..	2 3	..	15 3	0	8	22	1	1	2	3	0	4	9	10	1	0
	1730	"	1008 1	1001 4	.	29 2	17·0	6 2	9 5	24		2 1	..	8 5	0	2	28	1	5	2	1	0	0	9	12	1	0
	2330	"	1010 6	1003 7		20 4	14 8	10 0	12 3	52	.	1 3	.	6 8	1	2	10	0	0	2	3	0	1	4	3	18	0
Bhagalpur .	0530	49	1011 1	1005 4		18 5	14 4	11 0	13 1	63	.	2 6		5 0	0	0	23	0	0	4	1	10	6	0	2	8	0
	0830	"	1013 6	1008 1	+2 0	23 7	17 2	12 3	14 3	50	−3	2 3	+0 6	5 6	0	1	26	0	1	7	2	3	5	7	2	4	0
	1130	"	1012 8	1007 4	.	29·6	19 2	11 6	13 8	34	..	2 7	..	8 0	0	2	25	1	2	4	4	1	1	9	5	4	0
	1730	"	1008 9	1003 4		28·1	18 5	11 1	13 2	37	..	2 2	..	4 6	0	1	29	1	0	2	2	1	2	11	4	8	0
	2330	"	1011 4	1005 8	.	21·9	16 0	11 5	13 6	53		1 7		5 0	0	0	22	0	0	3	6	4	5	4	0	9	0
Jabalpur .	0830	37	1013 2	1008 9	+2 1	22·1	16 7	12 7	14·7	55	+5	2·1	+0 3	4 8	0	0	31	4	0	8	3	0	2	13	1	0	0
	1730	"	1008 5	1004 2	.	28 4	19 7	13 9	15 9	42	..	1 6	..	3 4	0	0	18	2	0	2	0	0	0	4	10	13	0
Jammi . . .	0830	82	1012 5	1003 1		22·4	17 9	14 8	16 8	63		0 6	..	1 9	0	0	31	0	0	17	6	1	2	3	2	0	0
	1730	"	1009 5	1000 3	.	29 6	21 5	16 7	19 0	47		0 6		2 1	0	0	31	4	0	3	1	0	0	20	3	0	0
Kharl . .	0830	107	1012 9	1000 6	..	23 2	16 4	11 0	13 1	47	.	2 2	..	4 5	0	0	31	0	0	1	3	6	15	5	1	0	0
	1730	"	1008 8	996·8	..	30 2	17 3	5 9	9 3	21	..	2 1	..	5 0	0	0	30	1	2	1	0	0	1	16	9	1	0
Gaya . . .	0230	116	1010 9	997 3	..	17 6	12 5	8 2	10 9	55	..	1 2	.	5 3	0	1	22	0	0	1	10	8	2	1	1	8	0
	0530	"	1011 2	997 5	..	16 1	12 3	8 7	11 2	61	.	1 6	..	6 5	0	0	30	1	1	3	11	9	5	0	0	1	0
	0830	"	1013 2	999 9	..	23 3	15 8	9 5	11 9	43	+10	2 0	+0 6	10 3	0	2	29	0	1	2	3	6	14	4	1	0	0
	1130	"	1012 3	999 2	+1 6	29 9	18 0	8 3	10 9	27	.	2 1	.	18 7	0	9	21	3	2	4	1	1	2	11	6	1	0
	1730	"	1008 6	995 6		31 1	17 5	5·4	8 9	24	..	2·4		14 0	0	7	24	3	4	3	0	0	1	6	14	0	0
	2330	"	1011·3	997 9	.	20 6	14 1	8 1	10 8	47		1 1		7 2	0	3	21	1	2	1	8	6	3	2	1	7	0
Uttar Pradesh East																											
Kheri . . (R)	0830	147																									
(R)	1730	"																									
Babaraich . .	0830	124	1012·6	998 2	+1 6	19 3	14 9	11 1	13 2	60	+4	1 9	+0 7	6 6	0	0	25	0	0	8	0	0	0	15	2	6	0
	1730	"	1008 7	994·7		28·1	17·8	9 6	12 0	38		2 3		6 6	0	1	26	1	1	2	1	0	1	20	1	4	0
Gursanwa . .	0830	99	1011 7	1000 5	..	19 1	14 3	10·2	12 4	57	..	1·6			0												
	1730	"	1008 4	997 3	..	28·3	17 2	7 6	10 4	28	.	1 7	..	.	0												
Hardoi . .	0830	142	1012 8	996 2	+0 9	19 8	14·8	9 5	11·9	58	−7	1 2	−0 5	3 7	0	0	30	3	1	5	3	3	1	12	2	1	0
	1730	"	1008 8	992 8	..	28 7	17·6	8·1	10·8	28	.	1 2	.	4 5	0	1	27	2	3	1	3	0	0	13	6	2	0
Gonda . . .	0830	110	1012 9	1000 2	..	21·3	15 3	10 3	12 5	51	+3	1 4	0	3 3	0	0	25	1	0	7	0	0	0	6	11	6	0
	1730	"	1008 4	996 4	..	28 2	17 5	9 1	11 5	30	..	1·5	..	2 8	0	0	19	0	0	2	0	0	0	4	13	12	0
Lucknow . .	0830	111	1011 2	998 7	+0 1	19·8	14 9	10 6	12 7	56	+3	1 7	+0 3	1 7	0	0	23	0	3	0	1	0	1	15	2	8	1
	1730	.	1008 4	996 4		28 9	17 2	6 7	9 8	26		1·1	..	2 1	0	0	27	1	1	0	2	1	3	17	2	4	0
Lucknow (Amausi)	0230	128	1010 3	995 3	..	15 9	11·7	7 4	10 5	58	..	1 1	..	4 2	0	2	19	2	0	1	1	4	3	8	5	10	0
	0530	"	1010 6	995 5	..	14 1	10 9	7 6	10 4	66	.	1·5		3 4	0	0	20	4	4	1	1	0	2	4	4	11	0
	0830	"	1012 5	997 7	+0 9	20 8	14 0	7 5	10 5	44	+5	1·8	+0 4	7 0	0	2	27	2	2	2	1	2	1	8	11	2	0
	1130	"	1002 1	997 8	..	28 5	16 1	3 8	8 2	22	.	1 9	.	12 4	0	8	22	0	2	4	2	2	5	5	9	1	1
	1430	"	1009 3	995 1	..	30·1	16 6	2 4	7 3	19	..	1 9	..	15 0	0	11	19	4	0	0	4	2	1	9	11	1	

(R) Register not received.

(a) Mean of 30 days.

Sub-Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km per hour	Wind speed (Km p.h.): 62 or more	Wind speed (Km p.h.): 20 to 61	Wind speed (Km p.h.): 1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh East —*Contd*																											
Lucknow (Amausi)—(*Contd*)	1730	128	1008 4	994 1	.	28 9	16 2	3 3	7·7	22		2 0		9 5	0	1	22	1	3	3	2	0	1	8	5	8	0
	2030	,,	1010 5	995 8		21 4	11 4	7 9	10 8	42	.	0 9	..	5 4	0	1	21	0	3	2	1	1	1	10	4	9	0
	2330	,,	1011 0	996 2		18 5	12 9	7 3	10·4	50		0 9	..	4 5	0	1	21	3	2	1	2	1	0	5	8	9	0
Faizabad	0830	102	1012 4	1000 6	.	20 4	14 8	9 8	12 1	32		2 3		4 3	0	0	26	0	1	0	7	0	3	12	3	5	0
	1730	,,	1008 4	998 5		27 9	18·1	10 1	12 3	34		2 0		2 8	0	0	17	0	0	0	3	1	0	11	2	14	0
Gorakhpur	0830	77	1012·0	1003 5	+1 3	22 3	13 6	10 1	12 3	47	−5	1 5	+0 4	2 5	0	0	26	3	0	7	1	0	2	12	1	5	0
	1730	,,	1009 0	1000 2		29 5	18 1	8 9	11 4	30		1 8	.	3 0	0	0	30	1	0	1	2	1	2	23	0	1	0
Gorakhpur (P.B.O.)	0230	78	1009 7 (c)	1000 7	.	20 0 (c)	14 6 (c)	10 6 (c)	12 8	57 (c)		0 7	.	2 6	0	0	15	3	2	1	2	0	2	4	1	16	0
	0530	,,	1010 3 (c)	1001 5		18 4 (c)	14 1 (c)	10 8 (c)	12 9	62 (c)	.	1 3	..	2 3	0	0	15	3	1	2	0	0	1	4	4	16	0
	1130	,,	1012 0 (c)	1003 3		28 0 (c)	17 5 (c)	10 7 (c)	12 9	36 (c)	..	1 6	..	6 3	0	0	27	1	0	5	2	5	0	10	4	4	0
	1430	,,	1009 0 (c)	1000 3	..	30 4 (c)	17 8	9 3 (c)	11 7	29 (c)	.	1 7	..	7 0	0	1	25	1	1	1	7	3	1	8	4	5	0
	2330	,,	1010 6 (c)	1001 2	.	24 5 (c)	16 8	10 7 (c)	12 9	42 (c)	..	0 4	.	1 9	0	1	8	1	0	1	2	1	0	2	2	22	0
	2330	,,	1010 7 (c)	1001 6	.	22 3 (c)	15 7	11 1 (c)	13 2	52 (c)	.	1·1	.	2 7	0	1	11	2	3	0	2	1	0	3	1	19	0
Kanpur	0830	126	1011 8	997 1	0	18·3	13 6	9 4	11 8	57	+12	1 6	+0 8	4 4	0	0	25	4	0	5	0	3	2	10	1	6	0
	1730	,,	1008 0	993 9		30 2	18 0	7 6	10 4	25	..	1 5	.	8 7	0	2	26	3	0	3	1	2	0	18	1	3	0
Kanpur (Aerodrome)	0530	126	1010 7	995·8		15 8	11 6	7 2	10 1	58		1 6		6 1	0	0	24	5	2	1	1	3	1	7	4	7	0
	0830	,,	1012 6	998 1		21 1	14 1	7 1	10 1	41	+6	2·3		12 0	0	2	28	5	3	1	4	3	3	10	1	1	0
	1130	,,	1012·4	998 3		29 7	16 4	3 1	7 6	23		1 9		15 5	0	5	25	2	1	2	6	2	4	7	6	1	0
	1730	,,	1008 5	994 5	..	29 9	16 0	1 9	7 0	18		2 0		14 3	0	1	30	1	4	2	2	2	1	7	12	0	0
	2330	,,	1011·4	996 5	..	20 2	13 7	7 2	10 1	45		1 2		8 0	0	2	22	5	3	2	1	2	1	5	5	7	0
Sultanpur	0830	97	1013.3	1002 0	.	20 6	14 7	9 4	11 8	49	.	2 1		3 7	0	0	27	0	2	0	6	0	7	9	3	4	0
	1730	,,	1008·8	998 0	.	30 2	18 2	8 3	10 9	27		2 0		3 0	0	0	28	0	1	5	2	0	0	14	6	3	0
Azamgarh	0830	78	1012 7	1003 7	..	21 0	16 0	12 0	14 0	58	.	1 7		5 8	0	0	31	1	0	6	0	3	0	21	0	0	0
	1730	,,	1008 5	999 8		29 5	20 5	14 5	16 5	42	..	1 5		6 3	0	0	31	2	0	5	0	0	0	23	1	0	0
Fatehpur	0830	114	1012·8	999 6	.	21 8	15 3	9 7	12 0	47	−5	1 8	+0 5	7 0	0	0	28	1	1	5	3	1	9	5	3	3	0
	1730	,,	1008·6	995 8	..	30·2	19 1	10 7	12 9	31	.	1 5	..	10 1	0	3	27	5	3	3	0	2	0	1	16	1	0
Ballia	0830	64	1013 5	1006 0	..	23 1	17 1	12 5	14 5	52	.	1 9	..	2 5	0	0	24	0	3	4	1	0	1	11	4	7	0
	1730	,,	1009 5	1002 4	.	29 7	20 5	14 4	16·4	43		2·1	.	1 6	0	0	20	0	2	4	2	0	0	6	6	11	0
Banda	0830	121	1013 1	999 5		23 9	15 3	7 3	10 2	37		1 6	..	1 2	0	0	12	0	0	0	4	1	3	0	4	19	0
	1730	,,	1008·8	996 6	.	31 2	17 8	5 7	9 1	22	..	1.5 (a)	.	2·0 (a)	0	0	25	0	2	0	5	0	2	0	16	5	0
Allahabad (Bamhrauli)	0230	98	1010·4	999 0	.	17 9	13 3	9 1	11 5	57		1 2	..	1 7	0	0	15	2	0	3	1	1	1	3	4	16	0
	0530	,,	1010·8	999 3	..	16 4	12 7	9 2	11 6	61	..	2 0	..	2 3	0	0	13	2	1	2	0	0	2	3	3	18	0
	0830	,,	1012 9	1001 6	+1 1	21 5	14 9	8 8	11 3	45	+1	2 2	+0 6	3 0	0	0	20	1	2	3	1	4	5	4	0	11	0
	1130	,,	1012 6	1001 6	.	29 8	17 9	7 8	10 6	28	.	1 9	.	6 2	0	0	31	2	2	4	3	3	3	8	5	0	1
	1430	,,	1009 6	998 7		31 7	18 9	8 1	10 8	25		2 2		8 1	0	3	27	2	2	2	1	1	2	15	5	1	0
	1730	,,	1008·5	997 8		30 4	18 4	8 5	11 1	28		2 1	.	4 7	0	0	29	6	3	2	0	0	1	6	11	2	0
	2030	,,	1010 4	999 2		25 6	16 2	10 0	12 4	44	.	1 6		2 5	0	0	15	2	4	3	0	1	0	2	3	16	0
	2330	,,	1011·2	999 9		20 5	14 7	9 2	11 6	51		1 5	.	1 4	0	0	13	1	2	2	2	0	0	2	4	18	0
Varanasi (Babatpur)	0530	85	1011·2	1001 5	.	18 5	13 5	8 8	11 3	53	.	1 6	.	4 3	0	1	18	1	1	0	1	0	9	7	0	12	0
	0830	,,	1013·7	1003 8	+1 6	22 3	15 4	9 1	11 5	45	0	2 0	+0 4	7 6	0	0	24	1	0	4	0	2	10	6	1	7	0
	1130	,,	1013·4	1003 2		28·5	18·0	9 7	12 0	32	..	1 8	..	12·0	0	2	26	1	1	4	1	1	5	13	1	3	1
	1730	,,	1009·4	999 8	.	29 9	17 7	6 7	9 8	26	.	1 9	..	11 1	0	2	26	1	1	1	1	0	1	19	3	3	1
	2330	,,	1011 9	1002 0	..	22 5	15 5	9 4	11 8	45	.	1 6	.	5 1	0	0	19	0	2	2	1	1	5	8	0	12	0
Varanasi	0830	76	1012·6	1003 9	+1 0	21·7	15 4	9 9	12 2	48	0	2·0	+0 6	2·2	0	0	30	0	3	3	3	0	5	15	1	1	0
	1730	,,	1008·2	999 6	.	29 8	17 9	7 2	10 2	28		2 3	..	2 3	0	0	30	2	3	0	2	1	0	18	4	1	0
Uttar Pradesh West																											
Mukhim	0830				..	10·5	6·1	0 8	6 5	53		2 7	..				.			.	.	.	.	..	..	..	..
	1730		.	.	..	11 7	6 7	1 1	6 6	51	..	4·2	..				.			.	.	.	.	..	..	..	..
Tehri	0830					12 4	10 3	8 5	11 1	88	..	2 7		0 7	0	0	6	2	1	0	0	0	0	1	2	25	0
	1130		.			19 2	12 7	6 7	9 9	46	.	2 8	..	2 3	0	0	20	5	2	3	0	1	2	2	4	11	1
	1730			.	..	22 5	13 5	4 9	8 9	36	..	3 3	.	5 7	0	1	26	2	3	1	2	7	6	5	1	4	0
Dehra Dun	0530	682	1011 7	933·6		13.0	10 1	7 3	10 2	70		2 8	.	1 4	0	0	11	4	3	1	1	0	0	0	2	20	0
	0830	,,	1012 6	935 3	+0 7	16 2	11 9	8 0	10 7	60	+2	2 4	−0 4	1 0	0	0	8	2	1	0	0	2	2	1	0	23	0
	1130	,,	1012 1	935 8		22 0	14 1	7 6	10 4	42	..	2 8	.	1 3	0	0	15	0	0	2	3	3	5	2	0	16	0
	1730	,,	1008 6	933 1	.	22 8	14 7	7 9	10 7	41		3 0	.	2 7	0	0	24	2	0	0	1	4	3	10	4	7	0
	2330	,,	1012 3	934 9	..	15 7	11 7	8·2	10 9	62	..	2 0	.	0 8	0	0	7	4	3	0	0	0	0	0	0	24	0
Mansiary	0830		..	.		8 9	3·4	0 3	6 2	67	..	.	..	..	.	..	.	..	.	.		.	..	..	..	..	..
	1730		.	.	..	7 5	3 8	−1·0	5·6	55	..	..	..	..		.			..	..	..	..	..	..	..	..	..

(c) Mean of 30 days.

(a) Mean of 28 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS— MARCH, 1965 (PHALGUNA 10, 1886—CHAITRA 10, 1887 SAKA)

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas)		Wind speed (km. p.h.)			No of observations									
			At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point				Mean amount	Departure from normal	Mean wind speed in km per hour	62 or more	20 to 61	1 to 19	Wind direction N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh West—*Contd.*																											
Roorkee	0830	274	1013.4	981.5	+1.4	16.6	12.6	8.9	11.4	61	0	2.8	+0.9	0.4	0	0	7	0	0	0	2	0	0	0	5	24	0
	1730	,,	1010.4	979.6		26.0	15.9	6.7	9.8	31		3.2		1.7	0	0	23	0	0	0	3	0	0	0	20	8	0
Nanbabad	0830	270	1013.2	981.8	.	16.7	12.9	9.3	11.7	63		2.5		4.0	0	1	18	1	1	8	2	0	0	4	3	12	0
	1730	,,	1009.6	979.3	..	26.0	16.1	7.1	10.1	32		3.0		7.0	0	2	28	0	1	5	3	0	0	17	4	1	0
Meerut	0830	222	1013.4	987.4	+1.3	20.0	14.5	9.6	12.0	52	—5	0.8	—1.0	4.1	0	0	21	1	0	1	5	0	0	10	4	10	0
Bareilly	0830	173	1012.4	992.3	+1.0	18.5	15.4	13.1	15.0	71	+11	1.8	0	4.5	0	1	27	0	1	5	2	1	4	8	7	3	0
	1730	,,	1008.6	989.1	.	26.9	19.9	15.2	17.2	52		2.5		3.2	0	0	26	0	1	5	0	0	0	13	7	5	0
Bareilly P.B.O.	0230	172	1010.2	990.1		18.1	13.3	9.3	11.7	57		0.6	..	3.8	0	0	25	0	2	6	2	1	0	12	2	6	0
	0530	,,	1010.3	990.1		16.5	12.6	9.5	11.9	64		1.6		4.1	0	0	27	0	2	7	1	1	2	9	5	4	0
	1130	,,	1012.4	992.7		24.9	16.0	9.4	11.8	38	..	2.2	..	6.3	0	0	29	0	3	2	6	1	0	11	6	2	0
	1430	,,	1009.6	990.1		28.0	16.3	7.3	10.6	28	..	2.2	..	7.0	0	1	28	4	0	2	3	0	2	11	7	2	0
	2030	,,	1010.4	990.6		22.2	15.1	9.7	12.0	47	..	1.2	..	4.4	0	1	25	4	2	3	0	1	2	11	3	5	0
	2330	,,	1011.1	991.4		20.6	14.2	9.7	12.0	52		0.8		5.2	0	0	23	0	2	3	1	1	0	14	2	8	0
Aligarh	0830	187	1012.6	990.5	..	18.5	13.5	8.9	11.5	55	+8	1.9	+0.5	3.2	0	0	29	5	0	3	1	4	4	10	2	2	0
	1730	,,	1009.1	987.6	..	28.3	16.7	6.3	9.5	25	.	2.2	..	3.3	0	0	28	6	0	3	0	3	2	11	3	3	0
Mainpuri	0830	157	1012.1	993.9	+0.3	19.8	14.5	9.7	11.6	53	+5	1.2	—0.4	2.4	0	0	15	0	0	4	1	0	2	4	4	16	0
	1730	,,	1008.4	990.8	..	29.2	17.5	7.6	10.4	27	..	1.5	..	5.5	0	1	24	0	0	1	5	0	2	11	6	6	0
Agra	0830	169	1013.2	993.7	+1.0	20.4	14.0	8.1	10.8	45	+2	1.3	—0.4	1.4	0	0	5	0	0	0	1	0	1	0	3	26	0
	1730	,,	1009.1	990.2	.	29.4	17.1	6.4	9.6	25		1.1		0.8	0	0	3	0	0	0	1	0	0	0	2	28	0
Agra (Aerodrome)	0530	169	1010.8	991.0	.	14.1	11.6	8.8	11.3	72	..	1.2	..	6.1	0	0	21	2	2	2	2	2	1	3	6	10	1
	0830	,,	1012.8	993.2		19.2	14.2	9.5	11.9	52	..	0.2	.	9.1	0	3	25	5	2	0	3	2	4	6	6	3	0
	1130	,,	1012.5	993.5	..	27.6	17.1	8.1	10.8	30	..	1.7	.	11.7	0	2	26	5	0	3	2	4	4	3	7	3	0
	1730	,,	1008.4	989.8	.	28.9	17.3	7.3	10.2	26	..	1.9	.	14.7	0	11	17	7	3	0	3	1	0	5	9	3	0
	2330	,,	1011.0	991.7		18.6	14.0	10.1	12.4	60		1.5	..	6.9	0	3	15	2	3	1	5	1	1	1	4	13	0
Orai	0830	141	1013.0	996.9		23.4	17.2	12.4	14.4	51	..	1.4	..	2.5	0	0	31	3	10	1	2	0	5	3	7	0	0
	1730	,,	1009.2	993.8		30.4	20.3	13.0	15.0	37	.	0.8		2.3	0	0	31	3	4	1	3	1	0	0	19	0	0
Jhansi	0830	251	1012.8	983.7	—0.2	20.0	13.4	6.2	9.5	42	+5	1.3	+0.2	1.0	0	0	11	1	0	3	0	1	2	3	1	20	0
	1730	,,	1008.4	980.7		30.8	17.2	4.3	8.3	20		1.5		1.7	0	0	16	4	0	5	0	3	0	2	2	15	0
Punjab (Including Delhi)	0530	312	1011.5	975.1		14.1	11.1	8.0	10.7	69	.	3.0	.	5.7	0	1	19	6	7	4	2	1	0	0	0	11	0
Pathankot	0830	,,	1012.5	976.6	+0.8	16.9	12.3	7.6	10.4	57	+1	3.6	—0.1	5.9	0	3	15	3	7	4	2	0	1	1	0	13	0
	1130	,,	1012.6	977.7		23.2	14.8	6.9	9.9	37		3.4		8.8	0	2	25	5	3	3	2	8	2	2	2	4	0
	1730	,,	1009.7	974.5		24.1	15.1	6.5	9.6	35		3.8	..	9.5	0	1	27	4	2	0	1	1	6	12	2	3	0
	2330	,,	1012.4	976.2	.	16.5	12.7	8.9	11.4	64	.	3.2	..	5.6	0	1	15	4	6	3	0	3	0	0	0	15	0
Bhuntar	0830	1067	1508.9	893.7		8.8	6.7	4.6	8.5	76	.	2.5	..	4.4	0	2	20	13	3	0	3	1	0	0	2	9	0
	1130	,,	1510.8	892.9	.	15.2	9.7	4.0	8.1	49		3.6	.	6.3	0	1	28	3	6	2	8	5	1	0	2	2	2
	1730	,,	1482.3	889.8	.	16.6	10.6	4.6	8.5	48	.	4.1		10.6	0	6	21	3	1	0	4	5	4	0	7	4	3
Amritsar (Rajasansi)	0530	234	1011.4	983.6		11.7	10.2	8.7	11.2	82		2.6	..	6.2	0	0	24	4	4	10	1	0	0	1	4	7	0
	0830	,,	1012.7	985.3	+0.3	15.5	12.5	9.7	12.0	69	—4	3.2	0	6.1	0	2	19	3	5	6	3	0	0	0	4	10	0
	1130	,,	1012.7	986.0	.	23.7	16.1	9.7	12.0	43	..	2.8	.	10.3	0	4	24	4	2	7	4	1	0	3	7	3	0
	1430	,,	1010.4	983.7	.	26.4	16.5	7.8	10.6	33	.	3.4	,,	11.2	0	1	27	4	0	2	6	2	2	2	10	3	0
	1730	,,	1009.5	983.0		25.2	16.3	8.5	11.1	37	..	3.3	.	10.1 (c)	0	2	23	1	0	4	1	3	2	1	13	6	0
	2030	,,	1011.3	984.2		17.7	13.8	10.3	12.5	63	.	2.7	..	6.2	0	1	16	1	2	4	0	0	2	5	3	14	0
Adampur (Aerodrome)	0830	249	1012.8	983.6	.	15.2	13.0	10.8	13.0	76		3.6	..	5.2	0	1	14	3	1	5	4	0	0	0	2	16	0
	1730	,,	1009.9	981.6	.	23.6	16.7	11.2	13.3	46		3.2	.	14.5	0	4	26	1	0	2	2	5	0	3	17	1	0
Ludhiana	0830	247	1012.4	983.7	+0.4	17.2	13.2	9.5	11.9	62	+1	2.8	+0.6	3.1	0	0	29	1	8	3	3	1	2	5	6	2	0
	1730	,,	1009.3	981.3	.	25.5	16.6	9.3	11.7	38		2.2		3.6	0	0	31	1	5	0	6	2	3	0	14	0	0
Ferozepore	0830	200	1013.0	989.5		16.7	13.6	10.9	13.0	69	.	1.2		1.9	0	0	24	4	8	3	3	1	0	0	5	7	0
	1730	,,	1009.9	987.2	.	25.7	19.3	14.8	16.8	55	.	2.4		2.5	0	0	25	8	3	1	0	2	0	1	10	6	0
Halwara (Aerodrome)	0830	242	1012.2	984.2		16.2	13.2	10.5	12.6	71		2.9	.	8.3	0	1	25	6	1	1	5	4	1	2	6	5	0
	1730	,,	1009.3	982.4	..	24.7	16.8	10.2	12.4	42		2.9	..	10.4	0	1	28	4	0	3	4	3	0	4	11	2	0
Chandigarh	0830	347	1011.9	971.7	0	19.1	12.7	6.3	9.5	46	—6	1.5	0	2.2	0	0	15	0	0	0	4	0	0	0	11	16	0
	1730	,,	1008.8	969.1	.	24.1	15.9	9.3	11.7	42	.	2.2		3.0	0	0	29	0	0	0	5	0	2	0	22	2	0
Ambala	0830	272	1011.9	980.4	+0.2	16.5	11.8	7.2	10.2	56	0	1.9	—0.4	0.9	0	0	7	0	1	0	2	0	0	2	2	24	0
	1730	,,	1009.7	978.6	..	24.0	15.7	8.3	10.9	40	.	1.6		2.7	0	0	24	0	4	0	13	0	2	0	5	7	0
Ambala (P.B.O.)	0230	278	1010.7	978.3	..	17.0	12.4	9.0	11.5	60	.	1.5	..	7.0	0	0	25	3	1	2	6	0	0	1	12	6	0
	0530	,,	1010.4	978.0	..	15.4	11.6	8.0	10.7	65	.	2.1	.	7.0	0	1	21	2	0	2	4	0	1	5	8	9	0
	1130	,,	1012.1	980.1	.	24.1	15.5	9.4	11.8	39	..	2.7	..	10.5	0	5	20	2	2	0	9	1	0	2	9	6	0
	1430	,,	1009.7	978.5	..	25.8	15.5	7.4	10.3	33		3.0	.	12.6	0	5	26	2	2	1	5	2	0	7	12	0	0

(c) Mean of 24 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g p m of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (Including Delhi)—*Contd*																											
Ambala P B O (*Contd.*)	2030	278	1010 4	978 6		21 2	14 3	9 2	11 6	48		1 7		8 3	0	1	27	1	3	1	3	0	2	4	14	3	0
	2330	,,	1011 2	979 1	..	18 8	13 4	8 9	11 4	55	.	1 5		7 5	0	1	24	3	1	4	3	0	0	2	12	6	0
Ambala (Aerodrome)	0530	274	1010 9	978 5	.	12 6	10 9	9 1	11 5	80	.	2 0	.	6 0	0	3	8	0	1	0	5	0	0	1	4	20	0
	0830	,,	1012 3	980 3	..	16 4	12 8	9 5	11 9	65	.	2 6		7 1	0	4	13	1	0	0	8	0	0	1	7	14	0
	1130	,,	1012 1	981 0	..	24 2	15 7	8 4	11 0	38		1 0	..	15 1	0	10	15	1	0	2	8	2	0	1	11	6	0
	1730	,,	1009 1	978 1	.	24 7	15 8	7 8	10 6	38		3 1		16 0	0	9	16	1	0	1	4	2	1	4	12	6	0
	2330	,,	1011 5	979 3		16 0	12 7	9 7	12 0	67	.	1 3	..	4·7	0	2	9	0	0	3	3	1	0	0	4	20	0
Patiala . .	0830	251	1013·0	983 5	.	17 5	13 2	9·3	11 7	59	.	2 6		8 5	0	2	26	1	1	0	9	0	0	0	17	3	0
	1730	,,	1010 6	981 7		24 9	16 0	8 0	10 7	37	..	2 7	.	9 0	0	0	23	1	0	0	7	0	0	0	15	8	0
Bhatinda .	0830	211	1012 6	988 2	.	22 2	16 0	10 9	13 0	51	..	0 9	..	3 2	0	1	19	0	4	0	10	0	0	0	6	11	0
	1730	,,	1009·4	985 6	.	26 7	18 1	11 3	13 4	43	.	1 6	..	5 0	0	0	23	0	5	0	5	0	0	1	12	8	0
Karnal	0830	249	1011 7	983 6	..	21 5	15 6	10 8	13 0	51	..	0 5	..						..		.	..	..	..	..	..	..
	1730	,,	1008 9	980 8	..	25 6	17 0	9 7	12 0	40	.	0 9	..					.	..	..	..	..	..	..	..	..	..
Hissar .	0530	221	1011 1	985 1		14 5	13 1	11 7	13 7	84	.	1 3		3 0	0	0	27	4	3	2	6	4	3	3	2	4	0
	0830	,,	1013 0	987 4	+0 7	16 8	14 5	12 4	14 4	76	+25	1 6	−0 1	3 6	0	0	27	4	0	2	3	4	6	2	6	4	0
	1130	,,	1012 4	987 5	..	26 3	20 8	17 3	19 7	60		1 7		6 0	0	0	29	4	1	6	4	6	1	3	3	2	0
	1730	,,	1009 4	984 6	..	27 7	21 4	18 0	20 6	59		2 1	.	5 6	0	0	31	10	3	2	0	5	3	1	7	0	0
	2330	,,	1011 6	986 3	.	18 2	15 6	13 6	15 6	76	..	0 8		3 4	0	0	26	4	6	4	1	4	1	3	3	5	0
New Delhi (Safdarjung)	0230	216	1011 0	985 8	..	17 3	13·3	9·6	11 0	62	..	1 2	..	4 1	0	0	19	4	0	2	1	1	1	5	5	12	0
	0530	,,	1010 9	985 6		15 9	12 3	8·8	11 3	64		1 2	..	5 2	0	1	20	1	0	2	2	1	4	7	4	10	0
	0830	,,	1012 6	987 5	+0 5	18 2	13 3	8·6	11 2	55	+7	1 8	−0 4	7 5	0	0	28	0	1	3	3	1	6	8	6	3	0
	1130	,,	1012 5	988 1		26 5	16 3	7 0	10 0	31	.	1·8	..	12 4	0	7	22	1	0	1	5	4	2	8	8	2	0
	1430	,,	1009 8	985 6	.	28 7	16 9	6 0	9·3	25	..	2 1	..	14·3	0	9	21	1	1	2	1	3	4	7	11	1	0
	1730	,,	1008 7	984 5	..	27 9	16·5	6 0	9 3	27	.	2 0	.	13·2	0	5	26	3	3	2	2	1	1	5	14	0	0
	2030	,,	1010 5	985 7	..	22 4	15 5	9 7	12 0	46	..	1 2	..	6·1	0	6	18	5	3	3	2	1	0	4	6	7	0
	2330	,,	1011 4	986 3	.	19 4	14 3	9 7	12 0	55	..	1 2		5 4	0	2	18	5	2	4	1	1	0	4	3	11	0
Palam (Aerodrome) .	0230	233	1011 4	985 0	..	17 0	12 7	8 1	10 5	56	..	1 0		4.5	0	1	17	0	4	1	6	2	1	2	1	13	1
	0530	,,	1010 9	983 9	..	14 7	11 1	7·6	10 4	63	..	1.3	..	5 2	0	0	20	1	0	2	7	1	4	4	1	11	0
	0830	,,	1012 7	986 4	..	17 5	13·1	9 1	11·5	56	..	1 6		5·6	0	0	23	1	1	0	5	3	4	7	2	8	0
	1130	,,	1012 7	987 1	..	26 3	16 4	7 6	10 4	32		1 6		10 2	0	2	26	4	1	1	0	5	4	5	8	3	0
*	1430	,,																									
	1730	,,	1008 9	985 1		28 2	16 5	5 5	9 0	25		1 9		10 8	0	1	30	9	2	0	3	3	0	4	10	0	0
*	2030	,,																									
	2330	,,	1011·8	985 4	..	18 8	13 4	8 5	11 0	53		0 8	..	6 9	0	2	19	1	6	4	7	1	0	2	0	10	0
Himachal Pradesh																											
Mandi . .	0830	761	1016·9	929 4	+2·1	11·2	9·1	7 1	10 1	77	−3	2 2	−1 8	0 2	0	0	1	0	0	0	0	0	1	0	0	30	0
	1730	,,	1011 5	926 3	.	21 8	12·8	4 1	8 2	35	.	3 8	..	0 9	0	0	6	0	0	0	0	0	6	0	0	25	0
Bilaspur . . .	0830	587	1014 8	947 8	..	15·7	11 2	7 6	10 4	61	..	0 5	..	0 4	0	0	3	0	0	2	0	0	0	1	0	28	0
	1730	,,	1009·7	944 8	..	23 4	14 3	6 2	9 5	35	..	0·7	..	2 6	0	1	22	0	2	1	5	2	8	3	2	3	0
Jammu and Kashmir																											
Misgar (R)	0830																										
(R)	1730	..																									
Gilgit (R)	0830																										
(R)	1730																										
Skardu (R)	0830	..																									
(R)	1730	.																									
Leh . . .	0530	3514	..	.	..	−6 8	−9.3	−16·2	1·5	42	..	3 9	..	5 1	0	0	26	10	14	0	0	0	2	0	0	5	0
	0830	,,	..	..	..	−2 3	−5·3	−11·2	2 3	46	−8	3 9	−0 1	3·2	0	0	23	0	1	0	0	16	6	0	0	8	0
	1730	,,	..	..	..	1 5	−2·8	−10 6	2 5	42	..	5·1	.	4 9 (b)	0	0	29	0	1	0	6	10	12	0	0	0	0
Srinagar . .	0830	1587	1522·4	843 5	+0·6	4 8	4·0	3 0	7·6	87	+4	5 7	+0 8	2 8	0	0	19	1	0	3	6	2	0	0	7	12	0
	1130	,,	1522 9	843·7	.	9 2	6 5	3 6	7·9	69	..	5 3	..	3 7	0	0	27	2	1	1	6	1	1	1	14	4	0
	1430	,,	1507·0	842 1	.	11 6	7 4	3·0	7·6	58	..	4·8	.	5 8	0	0	31	3	1	0	4	3	1	3	16	0	0
	1730	,,	1502 0	841 2	..	11·0	6 8	2·3	7·3	58	..	5 2	.	5 1	0	0	27	3	1	1	3	0	0	3	16	4	0
	2030	,,	1508 2	842 1	.	8 2	5·9	3 4	7·8	73	..	4 3		4 0	0	0	15	3	1	0	2	0	1	0	8	16	0
Srinagar (Aerodrome)	0530	1666	1507 3	834 0	.	3 3	2 3	1 1	6·6	84	.	4·7	..	3.1	0	1	8	1	0	0	2	0	0	1	5	22	0
	0830	,,	1517·7	835 1	..	4·9	3·5	1·9	7·0	81	..	5 7	..	3.2	0	0	14	0	0	0	2	5	1	0	6	17	0
	1130	,,	1518 3	835 6	.	8.8	6 0	3 1	7·6	68	.	5 5	.	4·8	0	1	19	3	5	2	1	1	1	0	7	11	0
	1730	,,	1493·5	833 0	.	10 8	7 0	3·2	7.7	61	..	5 5	..	9·0	0	4	21	4	0	0	3	1	1	0	16	6	0
	2330	,,	1509 8	834·4	..	5·6	4·0	2·1	7·1	77	..	4.0	..	2·7	0	0	10	1	0	0	0	2	0	1	6	21	0
Gulmarg	0830	2655				Closed during winter months																					
	1730	,,				Closed during winter months																					

(R) Register not received. (b) Mean of 29 days. *Data not available.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Km per hour	Wind speed (Km p.h.): 62 or more	Wind speed (Km p.h.): 20 to 61	Wind speed (Km p.h.): 1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Jammu & Kashmir —Contd.																											
Qazigund	0830	1690				4 9	3 4	1 3	6 7	79		5 4	.	1·1	0	0	15	0	2	0	7	1	1	3	1	16	0
	1730	,,	.	.	.	10 6	6 8	2 7	7 4	60		5 3	.	3 9	0	0	26	0	1	1	3	3	13	5	0	5	0
Banihal	0830	.	..	.	..	7 0	4 4	1·1	6 6	69		4 2	.	3 4	0	1	7	0	0	0	0	1	0	0	7	23	0
	1730		.		..	12 0	6 4	−0 4	5 9	48	..	5 0	.	5 5	0	0	18	0	1	0	1	1	0	0	15	13	0
Jammu	0830	366	.	..	..	16 0	12 5	8 8	11 3	63	+11	3 3	+0 7	8·3	0	0	29	3	7	2	0	0	1	0	1	2	15
	1730	,,	.	..	.	24 0	15 5	7 8	10 6	39	..	0 8	.	6 0	0	0	26	1	0	0	0	0	0	1	0	5	14
Jammu (Aerodrome)	0530	292	1011 7	977 3	.	14 6	11 7	8 7	11 2	69	..	3 2	..	5·0	0	1	16	1	14	2	0	0	0	0	0	14	0
	0830	,,	1012 6	978 5	.	16 7	12 4	8 0	10 7	58	..	4 0	.	3·2	0	0	19	4	12	1	1	1	0	0	0	12	0
	1130	,,	1012 8	979 2	.	22 8	15·4	8 5	11 1	42	..	3.5	..	7 2	0	3	15	0	1	1	5	2	1	4	4	13	0
	1730	,,	1009 7	976·3		24 1	16·4	14 5	16 5	43	..	3 8	..	9 0	0	2	23	2	1	1	4	2	4	10	1	6	0
	2330	,,	1011 7	978·0		17 5	13 1	9 0	11 5	59	..	·7	..	6 8	0	3	15	1	10	5	1	0	1	0	0	13	0
Rajasthan West																											
Ganganagar	0530	177	1010 5	989 7	.	14 5	11 1	7 4	10 3	64	..	0·5	..	1 0	0	0	7	0	1	3	1	0	2	0	0	24	0
	0830	,,	1012 2	991 4	+0 1	16 3	11 8	7 1	10 1	56	−7	0·8	−1 1	3 3	0	0	23	0	6	7	6	1	2	1	0	8	0
	1130	,,	1012 1	991 9	.	25 9	16 0	7 0	10 0	32	..	1 7	..	4 3	0	0	29	0	4	0	9	9	4	0	3	2	0
	1730	,,	1008 6	988 7	.	28 3	16 6	5 8	9 2	26		2 8	..	4 3	0	0	23	3	5	2	2	2	2	3	4	8	0
	2330	,,	1011 4	990·6	..	18 5	13 6	8 9	11 5	55		0 6		1 6	0	0	10	0	5	3	0	0	1	0	1	21	0
Anupgarh (R)	0830	154																									
(R)	1730	,,																									
Mahajan	0830	187	1011 0	989 2	.	19 0	14 6	10 4	12 6	60		0		(b) 5 1	0	0	26	2	2	6	7	4	5	0	0	3	0
	1730	,,	1006 8	985.8	.	39 7	21 6	17 0	19 4	50		0		(b) 4 1	0	0	26	5	1	1	1	6	4	2	6	3	0
Churu	0830	291	1012 9	979 2	.	18 1	10 4	1 0	6 6	34		1 4		6 3	0	0	25	2	0	6	2	4	7	3	1	6	0
	1730	,,	1008 2	975 8	.	29 1	14 7	−4 3	5.0	14		1 9	.	11 6	0	5	25	8	1	1	0	2	4	9	5	1	0
Bikaner	0830	224	1011 9	986 3	+0 2	17 9	10 6	1 2	6 7	35	−8	0 7	−1 1	4 2	0	0	29	0	5	2	10	5	5	1	1	2	0
	1730	,,	1007 7	982 7	..	30 5	15 9	0 8	6 5	16		0 9		7 5	0	3	28	7	2	1	0	1	10	2	8	0	0
Bikaner P B O	0530	224	1010 7	984 5	.	16 0	11 2	5 5	8·9	53		1 2		3 2	0	0	13	0	1	2	3	3	3	1	0	18	0
	1130	,,	1011 7	986 5	.	28 3	17 6	6 9	9 9	31	.	1 6	..	6 8	0	0	31	1	3	2	8	6	8	1	2	0	0
	2330	,,	1010 8	985 0	..	20 8	14 2	7 3	10 2	45		0 6	.	4 8	0	0	16	5	1	1	3	2	2	1	1	15	0
Nagaur	0830	296	1012 8	978 9	.	23 6	16 2	8 8	12 4	44	..	1 0	.	7 6	0	0	31	2	4	6	6	8	5	0	0	0	0
	1730	,,	1008·1	975 0	..	30 1	21 2	15 4	17 5	43		2 0		7 9	0	2	28	4	2	0	3	3	6	5	7	1	0
Phalodi	0830	234	1012 2	985 1	..	18 9	12 4	5 1	9 2	43		1 1		11 6	0	4	25	0	1	3	6	9	9	0	1	2	0
	1730	,,	1009·0	983 0	..	31 0	17 9	6 0	9·7	22	.	1·6		14 8	0	10	21	2	2	0	0	2	10	6	9	0	0
Jaisalmer	0830	242	1011 2	983 3	..	18 6	12 1	4 8	8 6	42	.	1 6	..	11 0	0	5	19	3	2	1	1	8	7	2	0	7	0
	1730	,,	1007 4	980 5	..	31 4	19·8	11 0	13 7	30		2 5	.	18 6	0	10	21	4	1	0	0	10	10	3	3	0	0
Jodhpur	0230	224	1010 7	981 8	..	20 8	12 3	2 2	7 2	31	..	0·6	..	7·6	0	2	27	7	9	0	0	2	7	4	0	2	0
	0530	,,	1010 9	984 4	..	18 1	11 4	3 8	8 0	40	..	0 8	..	6 3	0	0	23	7	9	0	1	1	5	0	0	8	0
	0830	,,	1012 7	986 7	+1 5	19 6	12 1	3 1	8·1	37	+1	1 2	−0·8	6·0	0	0	31	1	9	3	0	1	6	1	0	10	0
	1130	,,	1012 5	987 3	..	28 3	16 3	3 7	8 0	24	.	1 2	..	8 7	0	0	26	0	4	5	3	3	6	3	2	5	0
	1430	,,	1009 4	984 0	..	32 0	17 0	0 9	6 5	16	.	1 4	.	12 0	0	1	29	4	1	1	0	5	10	8	1	1	0
	1730	,,	1008·0	983 1	..	31 6	17 3	2 0	8 1	18		2 1	..	13 0	0	3	27	6	2	0	2	1	8	8	3	1	0
	2030	,,	1009 7	984 4	..	26 1	15 0	2 7	7 4	23	..	1 5	..	7.4	0	0	27	4	2	0	1	4	4	8	4	4	0
	2330	,,	1010 8	985 2	..	23 2	13 5	2·2	7·2	27	.	1.0	.	8 5	0	1	26	8	4	0	0	1	5	5	4	4	0
Barmer	0530	194	1009 5	987 3		20 7	14 5	8 3	11 5	48	..	0·9	.	7·1	0	1	22	1	0	0	0	1	7	5	9	8	0
	0830	,,	1011 6	989 1	−0 4	20 5	14 7	9·0	12 1	50	−5	1·5	−0 1	3 2	0	1	13	0	0	1	0	1	3	3	6	17	0
	1130	,,	1011 6	989 9	..	29 3	19 5	12 1	14·6	36	.	1 0	..	5 7	0	0	28	1	2	2	6	4	7	5	1	3	0
	1730	,,	1007.3	985 8		32 5	20 6	11 8	14 8	30	.	1 4	..	7 0	0	0	27	1	2	0	1	3	8	6	6	4	0
	2330	,,	1010.0	987·9	..	25 5	16 4	8 0	11·5	34	..	0 5	..	6 6	0	2	23	0	0	0	1	1	9	4	10	6	0
Lunpura Jawai Dam	0830	295	(c) 1012·3	(c) 979 0	..	(c) 20 5	16 1	12 7	14 7	61	..	0·7	..	(c) 3 2	0	0	21	0	0	0	2	16	2	1	0	10	0
	1730	,,	1008 3	975 7	.	30 7	22 8	18 5	21 3	49	.	1 1	..	5·7	0	0	23	5	1	0	0	3	5	7	2	8	0
Munabao	0830	80	1012·5	1003 1	..	17 7	..	.	..	..		0	..	3 0	0	1	20	2	5	0	3	5	6	0	0	7	0
	1730	,,	1009·6	1001 1	..	33 2	..	..	..	..	..	0	..	(b) 10 2	0	1	28	3	3	0	0	4	13	3	3	0	0
Rajasthan (East)																											
Pilani	0830	301	1013·2	978·5	..	18 5	12 2	5·2	9 1	45	.	1·6	..	7 8	0	1	30	2	1	5	4	6	8	4	1	0	0
	1730	,,	1008 8	975 4	..	28 2	15·5	1·2	7 3	21	..	1 0	..	10·8	0	3	27	8	1	1	2	1	4	7	6	1	0
Sikar	0830	433	1012 6	963·5	..	20 5	13 1	6 1	9·4	46	.	0·9	..	0·3	0	0	5	0	0	0	1	0	1	1	2	26	0
	1730	,,	1008·1	960 6	..	28 8	17 1	4 0	10 2	28	..	1·4	..	1 4	0	0	19	0	0	0	0	0	1	4	14	12	0
Alwar	0830	271	1011 9	980 5		19 5	15 7	12 1	14 1	62	.	1 5	..	0·9	0	0	11	1	1	1	2	2	2	2	0	20	0
	1730	,,	1008·2	978 0	..	29 2	21 5	17 2	19 6	48	.	2 2	..	1·7	0	0	18	3	3	2	1	0	3	2	4	13	0

(R) Register not received.

(c) Mean of 28 days.

(b) Mean of 29 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MARCH, 1965 (PHALGUNA 10, 1886—CHAITRA 10, 1887 SAKA)

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g p m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour.	Wind speed (Km p h): 62 or more	Wind speed (Km p h): 20 to 61	Wind speed (Km p h): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan East—*Contd*																											
Jaipur (Sanganer)	0230	390	1010·7	966 0	..	17 8	11 7	4 9	8·7	44	.	0 5	.	3 5	0	0	16	2	4	5	1	0	0	1	3	15	0
	0590	,,	1010 9	965 8	.	1 64	10 8	4 4	8 4	47		0 7	..	4 1	0	0	17	5	3	7	1	0	0	1	0	14	0
	0830	390	1012 5	967 9	−0 4	20 1	12 9	5 5	9 0	40	+3	1 6	−0 1	4 6	0	1	19	3	3	8	1	0	1	2	2	11	0
	1130	,,	1011 9	968 3	.	26 9	15 1	2 6	7 4	23	.	1.4	.	10·1	0	2	28	2	1	4	6	1	6	7	3	1	0
	1430	,,	1008 7	965 7	.	29 6	15 7	0 7	6 4	17	.	1·5	.	11 3	0	4	27	2	1	3	3	1	5	8	8	0	0
	1730	,,	1007 6	964 5	.	28 9	15 6	0 9	6 5	18	.	2 0		7 5	0	1	23	1	2	1	1	1	3	6	9	7	0
	2030	,,	1010 0	965·9		22 5	13 7	4 4	8 4	32		1 3	..	4 5	0	1	20	6	2	4	0	0	2	4	3	10	0
	2330	,,	1011 0	966 4		19 7	12 5	4 7	8 5	39	..	1 3	.	3 2	0	0	19	2	3	4	3	1	1	2	3	12	0
Dholpur	0830	176	1012 5	992 2		20 8	16 4	12 9	14 9	61	..	0 9	.	1 3	0	0	14	0	1	0	2	3	1	4	3	17	0
	1730	,,	1007 7	983 3	.	30 0	21 8	16 6	18 9	46	.	0 9		3·9	0	0	25	4	4	1	1	0	2	2	11	6	0
Ajmer	0830	486	1013 1	957 9	0	19 2	12 0	5 0	8 7	40	+4	1 7	+0·3	5 2	0	3	15	3	5	0	2	1	5	2	0	13	0
	1730	,,	1007 6	954·4		29 2	14 7	−0·4	5 9	16		2·2		9·8	0	3	28	5	2	0	2	1	8	8	5	0	0
Tonk	0830	272	1012·2	980 7		19 1	13 6	9 1	11 6	53	..	1 1		5 0	0	0	31	3	1	2	6	0	2	7	10	0	0
	1730	,,	1007 5	977 4	.	30 2	20 0	13 0	15 0	36	..	1 5	.	6 0	0	0	31	4	0	0	1	2	1	8	15	0	0
Bhilwara	0830	425	1013 2	964 8		19 9	12 1	3 2	7 7	34	..	1 6	..	4 8	0	0	22	3	5	1	1	2	4	4	2	9	0
	1730	,,	1007 8	961 1	.	30 3	15 1	−2 8	4 8	12	.	2 1	.	7 4	0	2	25	5	3	2	0	0	5	5	7	4	0
Kota	0830	257	1012 5	983·4	+0 2	22 7	14 7	7 5	10 4	37	+3	0 8	−0 7	3 0	0	1	11	0	1	1	3	0	3	2	2	19	0
	1730	,,	1007 8	979 5		30 5	17·5	5 8	9·2	22		1 5	..	5·6	0	1	20	6	3	0	0	0	3	2	7	10	0
Kota (Aerodrome)	0530	274	1011 0	979 4	.	18 9	11 3	2 1	7 1	33		0·8	.	7 7	0	0	29	0	2	4	0	2	6	15	0	2	0
	0830	,,	1012 4	981 2	.	22 3	13 2	3 1	7 6	30	.	0 9	..	6 1	0	1	27	3	2	4	3	0	5	8	3	3	0
	1130	,,	1012 4	981 8	.	28 5	15·3	0 6	6 7	18	..	0 8	..	9 7	0	2	27	1	6	5	3	2	2	5	5	2	0
	1730	,,	1007 6	977 5	.	31 6	16 3	0	6 1	14	..	1 4	..	10 8	0	3	28	2	10	3	2	0	1	8	5	0	0
	2330	,,	1011 3	979 7	.	23 1	13 2	1 8	7 0	26	..	0 3	.	4 5	0	0	26	1	3	0	0	1	11	6	4	5	0
Chambal (Rawat Bhatta Dam)	0830	351	1013 0	972 9	..	20 8	13 0	4 7	8 5	36	.	0 5	..	1 7	0	1	12	5	0	0	2	3	2	0	1	18	0
	1730	,,	1007 5	968 9		31 2	17 3	4 0	8 1	19	.	1 0	.	8 8	0	4	24	3	2	0	1	0	7	1	14	3	0
Udaipur	0230	582	1011 7	945 8	.	17 3	12 1	7 4	10 3	53	.	0 5		1 3	0	1	4	1	0	0	0	1	2	0	1	26	0
	0530	,,	1012 2	945·7	.	15 3	11 1	6·9	9 9	58	.	0 3		0 2	0	0	2	0	0	0	0	1	1	0	0	29	0
	0830	,,	1013 2	947 5	−0 1	19·7	13 3	7 5	10·4	47	0	0 5	−0 8	0 5	0	0	3	0	0	0	0	1	2	0	0	28	0
	1130	,,	1011 9	949 0		28 2	17 4	9 6	11 9	32		0 5		5 4	0	0	22	2	5	3	2	4	5	0	1	9	0
	1730	,,	1007 7	944 6		29 2	18 1	9 5	11 9	31	.	0 9		4 9	0	0	21	0	3	1	0	4	4	6	3	10	0
	2330	,,	1012 1	946 5		19 5	13 4	8 2	10 9	49	..	0 4		1 4	0	0	4	0	0	0	0	0	2	2	0	27	0
Jhalawar	0830	321	1012 4	975 8	−0 2	20 8	12 6	4 2	8 2	32	−4	0 8	−0 4	4 2	0	1	20	3	2	4	5	1	3	2	1	10	0
	1730	,,	1007 0	971 9		32 0	16 8	1 5	6 8	14		1 7		9 0	0	1	28	5	3	1	0	0	5	9	6	2	0
Banswara	0830	220	1012 7	987 6	.	22·8	14·1	4 5	8 4	33	.	0		6 8	0	1	28	0	1	9	6	4	9	0	0	2	0
	1780	,,	1007 6	983 0	.	33·2	18 1	4 1	8 2	17	..	0	.	8 2	0	2	28	2	1	1	2	0	9	9	6	1	0
Madhya Pradesh, West																											
Gwalior	0230	207	1010 8	986 7		17 2	11 5	5 7	9 0	47	.	1 0	.	2 5	0	0	15	2	1	0	2	3	5	0	2	16	0
	0530	,,	1011 0	986 8		15·8	10 6	4 7	9 0	53	..	1 4	.	3 0	0	1	15		0	0	2	6	4	2	1	15	0
	0830	,,	1012 7	989·0	+0 6	22·4	14 2	6 1	9 6	37	−1	1 6	+0·3	4 8	0	0	22	3	1	0	1	8	6	2	1	9	0
	1130	,,	1012 2	989 1	..	29 1	16 3	3 8	8 5	21		1 5	.	10·7	0	2	27	1	4	1	2	8	3	2	7	2	1
	1430	,,	1009 3	986 3	.	31 3	16 7	1 8	7 5	16	.	1 8	..	11 9	0	1	29	5	3	1	3	3	2	2	11	1	0
	1730	,,	1008 2	985 2	.	30 5	16·5	2 3	7 4	18	..	2 0	..	9 5	0	3	28	12	3	0	3	2	2	2	7	0	0
	2030	,,	1010 3	986 8	..	23 4	14 3	4 7	9 0	31	.	1 4	.	5 7	0	2	21	5	3	1	2	1	3	3	5	8	0
	2330	,,	1011 4	987 5		19 5	12 6	5 5	9 0	41	.	1 3	..	3 1	0	1	11	2	0	1	1	2	3	2	1	19	0
Sheopur	0830	235	1013 1	985 9	+0 8	19 5	12 5	5 1	8 8	40	−2	1 4	−0 5	4 8	0	0	27	4	4	2	6	4	3	2	2	4	0
	1730	,,	1008 0	982 0		31 3	16 8	2 6	7 4	16		1 8		12 0	0	5	25	10	1	1	0	3	4	7	4	1	0
Shivpuri	0830	464	1012 7	960 3	..	21 8	12 7	3 5	7 4	33	..	1 2		3 0	0	0	28	1	3	4	7	6	2	2	3	3	0
	1730	,,	1007 3	956 6	.	29 4	14 7	−0 5	5 6	15		1 8		6 2	0	1	19	0	4	0	1	1	1	3	10	11	0
Nowgong	0830	229	1012 9	986 5	+0 4	19 8	13 1	6 4	9 7	42	−4	2 2	+0 4	4 0	0	0	22	1	1	1	1	7	9	2	0	9	0
	1780	,,	1008 2	982 9		31 0	16 7	2 1	7 4	18		2 2	.	3 9	0	0	24	3	3	0	1	0	6	3	8	7	0
Guna	0530	478	1011 9	956 9	..	15 6	11 4	7 7	11 4	59		1 4		3 0	0	0	18	2	1	3	7	1	0	1	3	13	0
	0830	,,	1013 1	959 0	−0 1	21 6	15 4	10 5	13 0	50	+13	1 5	+0 5	3 5	0	0	31	2	2	9	7	10	0	0	1	0	0
	1130	,,	1011 6	959 0	.	29 5	20 1	14 3	16 6	42	.	1·3		5 4	0	0	31	5	1	3	6	5	3	0	8	0	0
	1730	,,	1007·5	955 2		30 0	19.4	12 0	14 8	35	..	2 4		10 0	0	2	29	5	1	0	1	3	2	6	13	0	0
	2330	,,	1011 6	957 6	.	20 0	13 9	8 7	11 2	49	.	0 9		4 2	0	1	22	4	5	3	2	1	2	2	4	8	0
Nimach	0830	496	1013 6	957 6	+0 8	21 3	11 4	−0 3	6 3	25	−12	0 4	−0 9	6 1	0	2	26	1	12	2	4	3	3	3	0	3	0
	1780	,,	1007·9	953 9		30 7	14 8	−2 2	5 2	12	.	1 4		15 5	0	10	20	2	5	0	0	0	3	16	3	1	1

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas)		Mean wind speed in Km per hour	Wind speed (Km p.h.)			No. of observations									
			At mean sea level or height in g.p.m. of the nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point				Mean amount	Departure from normal		62 or more	20 to 61	1 to 19	Wind direction								Calm	Variable
																		N	NE	E	SE	S	SW	W	NW		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh West—*Contd.*																											
Rajgarh	0830	382	1013 1	969 5	..	20 0	14 2	8 7	11 5	48		0 7	.	4 0	0	0	25	2	0	5	8	7	1	2	0	6	0
	1730	"	1017 2	965 5	..	32 0	21 6	14 4	17 3	37		2 1		11 3	0	5	24	6	5	0	1	2	4	9	2	2	0
Sagar	0830	551	1012 7	951 0	+0 7	22 7	13 3	4 3	8 4	32	+1	1 0	−0 3	2 7	0	0	20	0	3	2	3	0	1	6	5	11	0
	1730	"	1006 9	947 0	.	30 1	16 5	4 4	8 8	21		1 9	.	3 4	0	0	30	1	3	0	1	0	5	2	18	1	0
Ratlam	0830	486	1013 1	958 3	+0 7	21 6	14 3	8 2	10 9	43	+1	0 2	−1 7	9 2	0	2	26	2	8	7	1	3	5	2	0	3	0
	1730	"	1007 5	954 6	..	31 5	19 9	12 0	14 3	32		1 9		12 1	0	6	22	3	6	0	0	0	7	10	2	3	0
Bhopal (Bairagarh)	0230	523	1010 6	951 5	..	19 9	11 0	0 8	6 6	29		1 2	.	7 3	0	0	27	8	5	3	3	2	0	1	5	4	0
	0530	"	1011 2	951 9		18 7	10·6	1 2	6 9	32		1 3		6 1	0	0	23	4	6	2	4	3	1	2	1	8	0
	0830	"	1012 7	954 2	+0 4	23 5	13 1	2 5	7 5	26	−3	1 7	+0 6	10 8	0	3	25	4	2	7	6	3	3	1	2	3	0
	1130	"	1011 3	954 1	..	29 5	15 5	2 3	7·4	19		1 5	.	12 9	0	6	23	3	5	6	6	1	2	3	3	2	0
	1430	"	1007 8	951 2		31 6	16 1	1 4	7 0	15		2 2	.	14 6	0	8	22	4	2	1	2	2	3	11	5	1	0
	1730	"	1006·9	950 1	..	30 9	15 6	0 6	6 6	15	..	2 9	..	13 7	0	7	22	4	0	1	0	1	4	9	10	2	0
	2030	"	1009·6	951 7	..	25 3	13 5	1 5	6 9	22		1 9	..	8 1	0	1	25	9	5	1	0	0	3	6	2	5	0
	2330	"	1010 7	952.2	..	22 6	12 2	0 9	6 7	25	.	1 7	.	10 0	0	2	28	8	7	2	2	0	3	8	0	1	0
Ujjain	0830	489	1013 1	957 8		24 3	13 9	7 5	10 5	43	.	1 5	..	7 7	0	4	18	2	2	2	4	1	1	4	4	9	2
	1730	"	1007·2	954·1		31 7	19 2	10 3	13·1	29	..	2 3	..	17 4	0	11	19	3	1	0	0	2	0	13	8	1	3
Narsinghpur	0830	356	1013 3	972·7	..	20 6	14 1	7 3	10 8	43	..	2 6	.	.	0								..				.
	1730	"	1007 3	968 5		32·1	18 9	8 3	11·4	29	..	3 3	.	.	0				.		.	..		.	.		
Hoshangabad	0830	302	1013 3	978·8	+0 5	21 9	15 2	9 1	11.9	45	+11	1 5	+0 3	3 0	0	0	30	5	10	2	6	5	2	0	0	1	0
	1730	"	1007 5	974 2	..	33 1	19 9	10 4	12 5	26		2 0	..	4 1	0	0	30	2	15	0	4	1	5	2	1	1	0
Indore	0530	567	1011 4	946·9		17 3	10.3	2 9	7 5	39		0 6	..	7·2	0	1	20	2	4	1	0	0	11	2	1	10	0
	0830	"	1012 8	949 2	+0·1	21 7	12 6	3 5	8 0	31	−1	0 6	−0 5	11 4	0	5	22	1	4	8	0	3	3	8	0	4	0
	1130	"	1011 1	949 2	.	29 4	15 7	3 2	7 9	19	.	0 8	..	15 4	0	10	20	3	4	10	0	2	7	3	1	1	0
	1730	"	1006·6	945 3		31 2	15 5	−0 4	5 8	14		1 5		18 8	0	12	19	2	6	0	0	0	11	8	3	0	1
	2330	"	1011 2	947 6		21 2	12 0	2 4	7 4	29		1 1		8 9	0	1	26	0	5	4	1	0	12	1	4	4	0
Rajpur (Jhabua)	0830	293	1013 1	979 9	..	21 4	14 4	7 4	10 8	43	.	0 6	.	5 6	0	0	15	0	1	0	0	0	3	11	0	16	0
	1730	"	1007 7	975 7	..	33 3	17 0	2 5	7 9	15	.	0·9	.	7 1	0	3	25	1	0	0	0	0	5	20	2	3	0
Chhindwara	0830	685	1012 9	936·5	+0 4	21 0	14 7	9 1	12 1	49	+9	2 5	+0 9	3 7	0	0	19	5	5	2	1	2	0	0	4	12	0
	1730	"	1006 8	932 7	..	28 8	17 4	8 3	11 5	31	..	3 5		8 7	0	2	27	6	1	2	1	5	0	13	1	2	0
Seoni	0830	619	1012 9	943·7	+0 6	21 5	15 4	10·5	13 0	52	+15	2 7	+1 4	4 6	0	0	26	4	9	3	2	3	3	1	1	5	0
	1730	"	1007 1	940 1	.	29 3	18 7	10·7	13 8	37	..	2 9		9 3	0	0	31	3	4	0	2	7	6	3	6	0	0
Betul	0830	653	1012 7	939 9	+0 2	22 0	13 6	5 3	9 5	36	+1	2 7	+0 9	2 5	0	0	19	2	4	4	6	0	2	1	0	12	0
	1730	"	1006 5	936 1	..	30 3	16 0	2 5	7 7	15	..	2 6	..	6 7	0	0	31	6	2	0	5	1	2	5	10	0	0
Khandwa	0830	318	1012·8	976 7	+0 6	23 4	14 4	5 0	9 1	32	−1	0 9	0	3 2	0	0	30	1	6	1	0	5	6	3	8	1	0
	1730	"	1006 7	972 1	.	34 0	19 0	5 9	9 8	18	.	2 0	..	5·0	0	0	31	5	3	0	0	1	3	5	14	0	0
Madhya Pradesh East																											
Satna	0530	317	1011 5	974 6	..	16 5	12 2	8·5	10 2	61	..	1 9	..	1·5	0	0	19	3	3	0	4	4	4	1	0	12	0
	0830	"	1013 5	976 9	+1.0	21 4	15 1	9 5	12 0	48	+8	1 5	0	1 7	0	0	16	0	1	4	0	4	1	6	0	15	0
	1130	"	1012 4	977 0	..	28 0	18 0	10 1	12 5	34	..	1·5	.	2 5	0	0	19	1	4	3	4	4	1	2	0	12	0
	1730	"	1008 5	973 3	..	28 9	18 9	11 3	13·7	34	..	2 7	..	2 6	0	0	23	10	0	3	0	6	0	4	0	8	0
	2330	"	1011 6	975 4		21 0	15 9	11 2	13·3	55	..	2 3	..	1 1	0	0	11	3	1	2	3	1	0	1	0	20	0
Rewa	0830	299	1012 8	978·5	.	20 7	14 7	9 4	11·9	50	..	1 2	..	3 5	0	0	26	3	0	2	3	2	4	9	3	5	0
	1730	"	1008 4	975 4	..	29·7	17 9	7 5	10 9	28	..	1·9		4 7	0	0	29	8	6	2	0	1	0	5	7	2	0
Sidhi	0830	272*	1012 5	981 3	.	19 6	14 5	9 6	12 3	54	..	0 7	..		.	..	..			.	..	..	..		.		.
	1730	"	1007 4	977 0		30 1	18 4	8 1	11 6	29	..	1 9	..		.	.		..	.	..	..	.	..	..	..	.	
Umaria	0830	459	1013 4	961 3	.	21 0	14 9	10 0	12 0	51	+9	2 2	+0 4	3 7	0	0	24	1	4	5	6	2	2	1	1	7	2
	1730	"	1007·7	957 5	.	30 2	18 8	10 4	12 4	32	..	2 8	..	4 8	0	0	29	6	0	0	2	2	1	2	10	2	6
Jabalpur	0530	393	1011 8	966 6	..	16 5	12 4	8 2	11 1	60	.	1 2	.	0 9	0	0	8	1	1	0	3	2	0	1	0	23	0
	0830	"	1013·4	968 9	+1·3	21 8	14 6	7 6	10 8	41	−2	2 1	+0 9	2·6	0	0	21	1	3	0	6	8	0	2	1	10	0
	1130	"	1011·8	968·5	.	29 9	17 1	5 0	8 9	22	.	2 2		5 1	0	0	30	6	7	1	3	7	1	3	2	1	0
	1430	"	1008 2	965 4	..	32 5	17 8	3 8	8 4	19		2 6	..	6·6	0	0	31	4	5	1	0	6	2	7	6	0	0
	1730	"	1007·6	964 5	..	30 6	17 7	5 5	9 8	23	.	3 0	.	5 5	0	0	31	10	5	1	1	3	2	3	6	0	0
	2330	"	1011 5	966 8	..	20 6	14 7	9 3	11 9	50		2 1	.	1 9	0	0	13	2	3	1	2	4	0	1	0	18	0
Ambikapur	0830	611	1013 4	945 0	+0 7	21·0	14 4	8 8	11 6	47	−1	2·2	+1 0	3 5	0	0	20	4	6	2	0	4	1	0	0	11	0
	1730	"	1007 7	941·2	.	28 4	16 0	4·9	9 1	25		2 6	.	6 5	0	1	26	11	3	0	1	0	2	4	6	4	0
Jashpur Nagar	0830	779*	1012 9	926·4	..	19 8	13 6	8 1	11 0	48	..	1·4	.	1 8	0	0	20	3	6	0	0	1	3	2	5	11	0
	1730	"	1008 0	923·9	.	27·1	17 0	8 3	11·9	35	..	2 0	.	3·4	0	0	29	0	1	0	3	0	14	3	8	2	0

* Height Provisionally calculated.

Sub-Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g p m of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapure pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km per hour	Wind speed (Km p h): 62 or more	Wind speed (Km p h): 20 to 61	Wind speed (Km p h): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (East)																											
Contd —Pendra	0530	625	1012 1	941 5	..	17 6	12 2	7 0	10 3	52		2 0		4 5	0	0	22	7	0	0	0	6	3	3	2	9	1
	0830	,,	1013 4	943 7	+0·7	21 7	14 4	8 0	11 1	44	+3	2 2	+0 8	5 7	0	1	29	12	3	1	2	5	4	1	2	1	0
	1130	,,	1011 9	943·5		27 2	16 3	7 4	10 7	31		2 0		9 7	0	4	26	11	4	1	2	6	4	1	1	1	0
	1430	,,	1008 3	940 5	..	29 0	16 3	7 5	9 3	28		3 2	..	11 1	0	7	21	7	4	1	2	5	4	2	1	3	2
	1730	,,	1008 3	940 0	..	26 9	16·6	8 1	11 4	35	.	3 1	.	8 6	0	2	24	11	1	0	1	6	5	1	2	5	0
	2330	,,	1012 0	942 0	.	20 3	13 9	8 3	11 9	49		2 4	.	7·0	0	2	26	8	1	0	1	3	8	1	6	3	0
Mandla	0830	443	1013 6	963 3	+0 6	21 0	19 9	9 4	12 0	48	—9	2 2 (1)	+0 3	0 9 (1)	0	0	5	2	0	1	1	1	0	0	0	17	0
	1730	,,	1007 7	959 0	..	29 0	18 0	6 8	11 7	29		3 4 (1)		3 6 (1)	0	0	14	6	0	1	0	3	0	0	4	8	0
Champa	0830	245	1013 3	985 3	+0 8	22 9	16 3	10 7	13 1	48	+3	2 3	+0 5	3 0	0	0	26	14	4	1	1	0	0	0	6	5	0
	1730	,,	1008 0	981 0	.	32 0	18 8	7 7	10 9	24		3 7	.	5 0	0	0	28	4	0	2	1	0	3	6	12	3	0
Raigarh	0830	220	1013 3	988 3	+1 3	25·1	17 0	10 1	12 8	41	—2	2 4	+0 4	3 6	0	0	31	3	16	2	6	1	3	0	0	0	0
	1730	,,	1007 8	983 4		31 8	18 9	7 9	11 4	25		2 6		2 4	0	0	25	6	2	0	4	0	3	6	3	6	1
Raipur	0530	298	1010 9	976 8		20 6	15 6	11 3	13 7	57	.	2 7		3 5	0	0	19	2	3	1	3	4	1	3	1	12	1
	0830	,,	1013 1	979 3	+1 1	24 1	17 3	11 7	14 2	49	+9	2 2	+0 9	6 1	0	0	28	5	4	1	1	3	4	3	6	3	1
	1130	,,	1012 1	979 1		30 3	19·0	10 0	12 8	28		2 1	.	0 9	0	0	31	5	5	2	4	1	3	5	6	0	0
	1430	,,	1008 4	975 8	.	33·1	19 7	8 7	11 2	25	.	1 8	.	9 4	0	0	31	4	4	0	1	3	3	9	7	0	0
	1730	,,	1007 7	975 0		31 5	19 1	8 7	12 0	28	.	2 4	..	6 5	0	0	28	5	4	0	1	1	4	9	4	3	0
	2330	,,	1010·7	977 1		24 5	17·0	10 6	13 3	44		1 0		6 6	0	0	27	4	0	2	7	4	3	4	3	4	0
Kanker	0830	402	1012·6	967 8	+1 1	26 0	19 6	15 2	17 4	53	0	1 1	—0 6	1 1	0	0	7	0	0	0	0	1	3	2	1	24	0
	1730	,,	1007 3	963 6		31 9	21 9	15 1	17 1	35		1 6	..	2 6	0	0	23	3	1	0	0	1	9	6	3	8	0
Jagdalpur	0530	553	1010 9	948 8		19 6	16 0	13 5	15 6	69	..	0 8	.	0 6	0	0	4	0	0	0	2	1	1	0	0	27	0
	0830	,,	1012 3	951·1	+0 4	24 5	17 9	13 6	15 7	52	—5	1 4	+0 1	3 2	0	0	15	1	2	1	3	5	2	0	1	16	0
	1130	,,	1010 4	950 6	.	31 2	18 8	10 1	12 6	29	..	1 1		7 5	0	0	29	1	3	1	2	5	10	5	2	2	0
	1730	,,	1006 4	946 9		31 6	18 7	9 6	12 2	27	..	4 1	..	6 5	0	0	28	3	4	0	0	5	11	3	2	3	0
	2330	,,	1010·8	949 5	.	23 7	16 9	12 1	14 3	50	.	1 2	.	3 0	0	0	11	0	2	1	0	5	3	0	0	20	0
Gujarat Region (including Daman Dadra and Nagar Haveli)																											
Desa	0830	136	1013 2	997 3	+0 7	19 4	12 6	5 1	9 1	39	..	0 1	..	6 0	0	0	29	0	14	0	4	0	7	0	4	2	0
Radhanpur	1730	,,	1008 8	993 6		32 9	16 5	—2·1	5 4	11		0 2		10 3	0	0	31	0	2	0	1	0	11	0	17	0	0
	0830	30	1013 0	1009 5	.	20 4	17 0	14 3	16 6	70	..	0	..	4 1	0	0	26	1	4	3	0	0	7	4	7	5	0
Idar	1730	,,	1009 6	1006 2	..	32 9	23 9	18 5	22 7	47		0	.	7 2	0	0	31	2	3	0	2	0	14	1	9	0	0
	0830	219	1012 7	987 6	..	23 1	14 3	4 2	9 1	35	..	0 3	..	3 4	0	0	23	5	4	1	1	0	2	8	2	8	0
Ahmedabad	1730	,,	1008 0	984 2	.	32 9	17 1	0	6 7	14	.	0 4	..	4 5	0	0	30	0	1	0	1	1	0	19	8	1	0
	0230	55	1010 8	1004 3	.	21 1	13 7	5 6	9 7	39		0 2	.	6 7	0	0	23	6	1	0	0	0	0	11	5	8	0
	0530	,,	1010 7	1004 3	.	19 2	13 3	6 5	10 5	47	..	0 2		5 6	0	0	20	1	5	1	0	0	0	6	7	11	0
	0830	,,	1012 9	1006·5	+0·3	21 7	14 5	6 4	10 7	42	—5	1 0	—0 1	8 3	0	1	25	2	5	4	1	0	0	4	10	5	0
	1130	,,	1013 2	1007 0		30 7	17·3	3 6	8 9	21	..	0 5	..	13 3	0	8	22	4	3	7	3	0	0	5	7	1	1
	1430	,,	1010 2	1004·1	.	34 2	17·7	0 1	6 9	13	..	0 7	.	13 3	0	7	22	2	5	2	2	1	3	5	8	2	1
	1730	,,	1008 6	1002 5	.	34 1	17 4	—0 4	6 3	12	..	0 8	.	12 0	0	5	24	3	2	2	1	0	1	10	7	2	3
	2030	,,	1010 0	1003 7		27·4	15 8	4 2	8 6	24	.	0·2	..	5 7	0	1	19	3	0	0	0	0	3	7	7	11	0
Dohad	2330	,,	1011 1	1004 7	..	23 9	14 5	4 8	8 9	31	..	0 2	.	7 8	0	2	20	7	2	0	0	0	3	6	4	9	0
	0830	333	1013 0	975 1	+0 5	22 3	13 5	2 7	8 4	32	—8	0 6	—0·5	9 3	0	5	20	0	1	5	4	3	3	8	1	6	0
Vallabh-Vidyanagar	1730		1007 6	971 2		32 9	16·7	—2 1	5 9	12	..	0 2		9 8	0	5	26	4	1	2	0	0	18	4	2	0	0
	0830	44	1012 5	1007 5	..	19 6	14 0	8 2	11 5	51	..	0 7	..	4 8	0	0	29	5	7	0	2	4	3	4	4	2	0
Baroda Aerodrome	1730	,,	1008 4	1003 6	.	34 1	18 4	3 7	8 4	14	..	0 7	..	10 0	0	3	28	7	4	1	0	0	9	5	5	0	0
	0830	38	1013 0	1008 6	.	22 0	15 2	8 5	11 8	45	..	0 5		9 4	0	2	19	4	4	0	2	2	6	1	2	10	0
	1130	,,	1012 9	1008 7	.	30 9	17 8	5 3	9 7	23	.	0 4	..	18 1	0	12	16	2	5	4	1	1	3	5	7	3	0
Baroda	1730	,,	1008 3	1004 1	.	34 3	18 1	2 1	7 6	15	.	0 6	.	17 0	0	10	19	4	3	0	0	0	6	9	7	2	0
	0530	34	1010 9	1006 9		19 2	14 3	9 6	12 3	56	..	0 3	.	0 1	0	0	1	0	0	0	0	0	1	0	0	30	0
	0830	,,	1013 2	1009 1	+1 0	21 2	15 7	10 7	13 4	53	0	0 3	—0 5	0 5	0	0	6	0	2	0	0	0	1	1	2	25	0
	1130	,,	1013 2	1009 3	..	31 7	18 7	7 3	11 0	25	.	0 1	..	2 6	0	0	20	0	11	0	0	0	1	4	4	11	0
	1730	,,	1008 5	1004 7	..	35·5	19 9	7 2	10 5	19	.	0 3	..	3 4	0	0	21	0	2	0	0	0	8	5	6	10	0
Broach	2330	,,	1011 2	1007 2	..	24 3	16 8	10 7	13 0	44	..	0 1	..	1 0	0	0	11	0	2	0	0	0	2	5	2	20	0
	0830	17	1012 1	1010 1	+0 2	19 9	15 9	12 2	14 9	64	+5	0 3	—0 9	4 4	0	0	31	0	6	0	0	0	17	0	8	0	0
Surat	1730	,,	1008 1	1006 2		35 1	20 7	10 0	12 7	24		0 3	.	7 1	0	0	31	2	6	0	0	1	13	5	4	0	0
	0530	12	1010 8	1009 4	..	20·7	16 8	12 9	16 0	66	..	0·1	..	7 9	0	1	26	0	13	0	8	0	3	0	3	4	0
	0830	,,	1013 2	1011 8	+0 9	22·6	17 7	13·5	16 3	60	0	0 4	—0 6	7 0	0	0	30	0	16	0	8	0	3	0	3	1	0
	1130	,,	1013 5	1012 2	.	30 3	19·2	9·7	13 2	32		0 4	.	10 0	0	2	29	0	15	0	1	0	6	0	9	0	0
	1730	,,	1009 4	1008 1	.	32 5	20 4	11 2	14 1	31	.	0 5	.	12 6	0	3	28	0	1	0	0	0	16	0	14	0	0
	2330	,,	1011 7	1010 3		24 0	19 2	15 3	18 3	62	..	0 2	.	9 7	0	1	30	0	6	0	1	0	17	0	7	0	0

(1) Mean of 22 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km per hour	Wind speed (Km p.h.): 62 or more	Wind speed (Km p.h.): 20 to 61	Wind speed (Km p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch (including Diu)																											
Naliya	0830	21	1012 8	1010 3		19 6	17 7	16 5	18 8	82		1 5		4 5	0	0	27	3	5	3	2	0	8	3	3	4	0
	1730	,,	1009 9	1007 5		29 2	20 7	14 7	17 3	45		0 9		10 3	0	4	27	1	1	0	0	1	17	11	0	0	0
Bhuj (Rudramata)	0230	80	1011 4	1002 1		20 5	17 6	15 0	17 8	74		0 2		7 2	0	0	20	0	1	0	0	0	3	14	2	11	0
	0530	,,	1011 2	1001 8		19 1	16 5	14 1	16 7	76		0 1		5 5	0	0	14	1	0	0	0	0	2	9	2	17	0
	0830	,,	1013 1	1003 7	+0 6	20 9	17 7	15 1	17 6	72	+18	1 0	−0 2	5 5	0	0	15	1	0	0	0	0	4	9	1	16	0
	1130	,,	1013 3	1001 2		29 6	20 2	13 2	16 0	40		0 6		14 5	0	6	22	7	4	1	0	0	1	9	6	3	0
	1430	,,	1010 5	1001 5		33 1	21 0	11 7	15 0	31		0 8		14 1	0	7	20	4	2	0	1	0	3	9	8	4	0
	1730	,,	1009 2	1000 3		32 3	21 1	12 1	15 9	35		0 9		18 5	0	11	19	3	6	0	2	0	4	12	3	1	0
	2030	,,	1011 0	1001 9		26 7	19 8	14 4	17 5	51		0 2		14 3	0	1	29	0	2	0	0	0	7	18	3	1	0
	2330	,,	1012 0	1002 3		23 0	18 9	15 5	18 5	68		0 3		11 4	0	0	29	1	0	0	0	0	5	20	3	2	0
Kandla Aerodrome	0830	35	1013 3	1009 3		22 4	17 2	13 0	15 1	58		0 6		17 0	0	13	16	3	0	0	1	0	9	6	10	2	0
	1130	,,	1013 7	1009 7		30 5	17 8	6 7	10 1	24		0 6		19 4	0	12	19	5	6	1	1	0	2	12	4	0	0
	1730	,,	1009 4	1005 6	.	32 9	17 9	5 1	8 4	17		0 6		25 6	0	24	7	3	3	0	1	7	5	10	2	0	0
New Kandla	0830	14	1013 5	1011 9		21 8	18 0	15 3	17 6	68		1 3		10 9	0	3	25	7	2	0	0	0	5	7	7	3	0
	1730	,,	1010 0	1008 4		30 0	19 4	11 5	13 9	31		0 7		24 5	0	21	10	3	3	0	1	2	11	11	0	0	0
Mandvi	0830	9	1013 5	1012 4	+0 7	21 6	18 7	16 4	19 3	76	−4	2 7	+1 2	13 5	0	5	24	8	2	0	0	0	1	12	6	2	0
	1730	,,	1010 6	1009 5		26 6	22 3	19 9	23 5	68		0 8	.	30 6	0	26	5	0	0	0	0	0	8	23	0	0	0
Surendranagar	0830	71	1013 2	1001 6	+0 7	22 5	18 6	15 7	18 3	68	+9	0 8 (a)	−0 4	9 7 (a)	0	2	25	4	1	1	0	0	1	12	8	3	0
	1730	,,	1008 6	1000 4		33 9	23 3	16 9	20 0	38		0 6		9 8	0	5	23	4	2	1	1	1	0	14	5	3	0
Okha	0530	7	1011 7	1010 9		23 1	21 5	20 6	21 4	86	.	0 7		20 4	0	15	16	6	0	0	0	0	1	12	12	0	0
	0830	,,	1013 6	1012 8		23 6	21 3	20 0	23 5	81		0 8		20 3	0	12	19	7	0	0	0	0	3	11	10	0	0
	1130	,,	1014 7	1013 9		25 5	22 0	20 0	23 5	71		0 5		19 9	0	15	16	5	3	0	0	0	2	9	12	0	0
	1730	,,	1011 2	1010 4		25 8	22 4	20 4	24 3	73		0 3		23 4	0	25	5	0	0	0	0	0	1	14	15	1	0
	2330	,,	1012 9	1012 1		23 6	22 0	21 0	25 2	86		0 2		24 2	0	25	6	0	0	0	0	0	3	15	13	0	0
Jamnagar (Aerodrome)	0530	23	1011 4	1003 8		18 0	16 1	14 5	16 7	81		1 0		5 9	0	4	8	0	0	1	0	0	2	8	1	19	0
	0830	,,	1013 3	1010 6	+0 5	21 0	17 9	15 4	18 1	72	+1	1 7	10 6	10 2	0	3	18	2	0	0	0	1	8	6	4	10	0
	1130	,,	1013 9	1011 3		28 0	19 3	12 7	15 3	41		0 6	.	21 4	0	19	12	7	5	0	0	0	0	11	8	0	0
	1730	,,	1010 1	1007 6	.	29 3	18 9	9 0	13 4	35	.	0 5		28 1	0	28	3	9	2	0	0	0	0	18	7	0	0
	2330	,,	1012 2	1009 6		21 9	19 0	17 1	18 6	75	.	0 1	..	15 1	0	9	21	3	1	0	0	0	0	20	6	1	0
Dwarka	0830	11	1013 4	1012 1	+0 1	23 7	22 0	21 0	23 0	85	+9	0 9	−0 9	11 4	0	7	23	12	0	0	0	0	0	14	4	1	0
	1730	,,	1010 9	1009 6		26 4	23 6	22 1	26 7	78		0 1	..	18 2	0	15	16	4	0	0	0	0	0	23	4	0	0
Rajkot	0530	138	1011 5	995 5	.	18 3	15 0	11 4	14 4	69		0 7		7 7	0	4	20	1	2	0	0	0	6	8	6	7	1
	0830	,,	1013 3	997 4	+0 5	21 5	17 4	13 6	16 6	66	0	0 7	−0 6	10 3	0	11	8	0	2	0	0	0	5	9	3	12	0
	1130	,,	1013 2	997 7	.	29 9	18 5	8 0	12 0	30		0 2	.	23 4	0	19	11	5	8	0	0	0	3	6	8	1	0
	1730	,,	1009 8	993 6		33 0	18 6	4 8	9 7	22		0		23 2	0	18	12	4	3	0	0	0	2	7	13	1	1
Bhavnagar Aerodrome	0830	11	1013 2	1012 0	+0 6	22 9	16 0	9 4	12 6	15	+4	0 7	−0 5	16 2	0	10	20	7	0	0	1	0	1	9	10	1	2
	1130	,,	1013·5	1012 3		30 1	18 4	8 2	11 6	28		0 6		21 6	0	20	10	7	11	5	0	0	0	3	4	1	0
	1730	,,	1009 0	1007 8		32 8	18 5	5 0	9 7	21		0 6		26 7	1	24	6	1	9	4	8	6	1	2	0	0	0
Porbander (Aerodrome)	0830	7	1013·4	1012·6	+0 9	23 4	19 2	16 2	18 9	67	−7	1 0	−0 1	7 5	0	1	27	5	4	1	1	1	3	2	11	3	0
	1130	,,	1013 9	1013 1		29 9	20 6	13 1	16 7	43		0 1		16 6	0	14	17	4	6	1	0	0	7	9	4	0	0
	1730	,,	1010 4	1009·6	.	28 6	21 4	16 2	19 6	52		0 2		23 8	0	26	5	1	1	0	0	0	5	24	0	0	0
Keshod	0830	51	1013 4	1007 4		21 6	16 6	11 9	11 9	59		0 5		10 0	0	1	29	6	8	5	0	1	1	2	7	1	0
	1130	,,	1013 5	1007 7		30 0	17 9	6 3	10 7	27		0 7		20 5	0	19	12	9	4	1	0	0	1	6	10	0	0
	1730	,,	1009 6	1003 9		32 0	18 6	5 1	10 6	24		0 2		29 2	0	28	2	4	0	1	0	0	3	18	4	1	0
Mahuva	0830	9	1012 1	1011 1		23 9	16 4	9 2	12 6	42	.	1 6		3 9	0	0	28	7	6	0	0	0	1	0	14	3	0
	1730	,,	1008 5	1007 5		30 1	20 7	13 4	16 7	43		1 7 (a)		6 5 (a)	0	1	29	2	2	1	0	0	13	0	0	0	0
Veraval	0230	8	1011·4	1010 5		21 4	17 8	11 3	17 5	70		0 6	.	15 3	0	7	24	15	3	0	0	0	0	4	9	0	0
	0530	,,	1011 1	1010 2		20 2	16 8	13 1	16 4	70		1 1	.	14 1	0	5	26	18	4	0	0	0	0	2	7	0	0
	0830	,,	1013 2	1012 3	+0 5	22 2	18 1	14 3	17 4	67	+4	1 2	+0 1	14 6	0	5	26	15	7	0	0	0	0	3	6	0	0
	1130	,,	1013 7	1012 8		29 8	20 9	12 2	17 5	47	.	0 9	.	22 6	0	21	10	5	7	1	0	0	0	10	8	0	0
	1430	,,	1011 4	1010 5		28·9	22·8	17 9	22 7	61		0 5	.	20 4	0	26	5	1	2	0	0	0	2	17	9	0	0
	1730	,,	1010·3	1009 4	.	26 6	23 2	21 4	25.6	74	.	0 4	.	26 2	0	25	6	0	0	0	0	0	2	18	11	0	0
	2030	,,	1011 5	1010 6	.	24 7	21 8	19 5	23 8	77	.	0 4	.	20 3	0	22	9	1	1	0	0	0	0	10	19	0	0
Kankan (including Goa)	2330	,,	1012 3	1011·4	.	23 0	20 3	18 3	21 6	77	.	0 4	..	15 2	0	8	23	13	1	0	0	0	0	5	12	0	0
Dahanu	0830	5	10.2 2	1011·7	+0 4	22·9	20 4	18 6	21 8	76	+6	0·2	−1 5	7·0 (a)	0	0	31	4	1	12	13	0	0	1	0	0	0
	1730	,,	1009 8	1009 3	.	28 1	24 9	23 4	28·9	76	..	0	.	15 1	0	7	23	8	0	3	1	0	1	12	5	0	0
Bombay (Santa Cruz)	0230	14	1010·8	1009 1	.	21 5	19 1	17 4	20·1	78	.	0 2	..	2 3	0	0	10	5	3	0	0	0	0	0	2	21	0

(a) Mean of 30 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MARCH, 1965 (PHALGUNA 10, 1886—CHAITRA 10, 1887 SAKA)

Sub-Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g p m of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km per hour	Wind speed (Km p h): 62 or more	Wind speed (Km p h): 20 to 61	Wind speed (Km p h): 1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Konkan (Including Goa)—(Contd)																											
Bombay (Santa Cruz)—Contd	0530	14	1010 7	1009 0		20 7	18 6	17 2	19 7	81		0 6	·	3 1	0	0	19	4	8	6	0	0	0	0	1	12	0
	0830	"	1012 8	1011 1	+0 1	24 7	20 1	17 1	19 7	64	−6	1 2	−0 1	2 6	0	0	14	2	5	4	1	1	0	0	1	17	0
	1130	"	1013 0	1011 3		30 2	21 6	15 9	18 8	45	·	0 8		12 3	0	0	30	1	2	1	1	0	2	11	12	1	0
	1430	"	1010 5	1008 9		30 6	22 2	17 2	19 9	46		0 5		18 1	0	0	22	2	0	0	0	0	0	2	20	0	0
	1730	"	1009 7	1008 1		29 1	21 5	16 8	19 5	49		0 6		18 5	0	9	22	3	0	0	0	0	0	1	4	0	0
	2030	"	1011 2	1009 5		25 4	20 9	18 1	21 0	65	·	0 6		18 5	0	11	20	10	0	0	0	0	0	3	15	2	0
	2330	"	1012 0	1010 3		23 2	20 0	17 9	20 8	73	·	0 6		10 4	0	0	29	4	3	0	1	0	1	6	16	0	0
	0830	11	1012 6	1011 4	+0 3	24 7	21 5	19 7	22 9	71	+1	1 5	+0 2	3 0	0	0	15	8	5	5	8	1	0	0	4	0	0
	1130	"	1013 0	1011 8		28 6	22 6	19 2	22 5	58		1 5		7 1	0	0	31	8	5	1	1	3	1	2	15	1	0
Bombay	1730	"	1009·8	1008 6		28 0	22 7	19 8	23 2	61		1 0		9 2	0	1	29	3	1	0	0	0	0	2	4	0	0
	0830	7	1012 9	1012 1	+0 9	23 9	20 5	18 5	21 4	72	+7	0 7		15 9	0	9	22	2	0	2	8	1	0	0	1	0	0
	1730	96	1012 3	1001 3		21 0	17 1	14 2	16 3	25		0 8	−0 5	5 0	0	0	27	12	2	1	0	0	0	0	0	25	0
Alibag	0830		1007 8	997 3		34 7	20 9	11 1	13 5	67	−2	0 6	·	1 2	0	0	6	1	1	0	0	0	0	0	0	2	0
Bhira	1730	"	1012 2	1009 9	+0 9	21 9	20 7	18 2	21 0	76	·	0 5	·	4 5	0	0	29	1	0	0	0	0	0	0	0	5	0
	0830	20	1009 6	1007 3		27 1	23 8	22 1	26 9	70	..	1 7	+0 4	8 1	0	0	26	7	0	0	0	0	0	1	4	0	0
Harnai	1730	"	1012 3	1008 3	+0 5	24 3	21 0	19 1	22 2	63	·	0·3	·	26 8	0	23	8	10	11	0	0	0	0	0	0	16	0
	0830	35	1009 4	1005 5		28 8	23 5	20 9	24 7	82	+5	1 7	−0 6	5 0	0	0	29	2	11	1	0	0	0	0	13	14	0
Ratnagiri	1730	"	1012 4	1008 4	+0 8	24 4	22 2	21 1	25 0	68	..	0 9		11 1	0	0	31	2	3	0	0	0	0	0	0	0	0
	0830	36	1009 3	1005 3		29 0	24 6	22 4	27 3	68	..	0 7		9 5	0	1	29	3	7	0	0	0	0	0	3	28	0
Devgarh	1730	"	1011 0	1010 0	·	22·7	20 9	20 0	23 2	85		1 2		28 6	0	27	4	·	·	·	·	·	·	·	·	·	·
	0230	9	1010 5	1009 5		21 7	20 5	19 8	23 1	89		0 9	−0 9					5	9	1	0	0	0	0	0	1	0
Vengurla	0530	"	1013 0	1012 0	+1 0	24 2	21 7	20 3	23 8	79	+4	0 8	..					4	4	1	0	0	0	0	0	1	0
	0830	"	1013·0	1012 6	..	29 9	23 3	19 6	23 2	56	·	1 2	·					3	2	0	0	0	0	0	0	1	0
	1130	"	1009·6	1008 6		29 1	23 5	20 5	24 4	60	·	0 4	·					11	0	0	0	0	0	0	0	1	0
	1730	"	1011 8	1010 8	..	24 2	21·9	20 7	24 4	81	..	0 9	·	8 6	0	1	29	4	11	4	0	0	0	0	0	0	0
	2330	"	1010 3	1009 4	..	22 9	21 1	20 1	23 5	84	..	2 2	·	5 0	0	0	29	1	8	1	0	0	0	0	0	0	0
	0530	60	1012 6	1005 8	·	23 9	21 7	20 5	24 1	82		1 7	·	12 2	0	2	29	1	0	0	0	0	0	0	0	0	0
Panjim	0830	"	1012·8	1006 1	·	29 6	23 0	19 4	22 7	55		0 9	·	18 8	0	15	16	1	0	0	0	0	0	0	0	0	0
	1130	"	1010 4	1003 7		30 3	23 7	20 3	23 8	56		1 5		17 0	0	8	23	1	0	0	0	0	0	0	0	0	0
	1430	"	1009 3	1002 6		29 0	23 4	20 5	24 3	61		0 5		10 5	0	1	30	6	0	0	0	0	0	0	0	0	0
	1730	"	1010 7	1003 9		26 5	22·7	20 8	24 4	71		0 5		7 7	0	1	25	18	7	2	0	0	0	0	0	0	0
	2030	"	1011 7	1001 9		25 2	22 1	20 4	24 1	75	·	1 4		9 7	0	3	25	2	10	3	0	0	0	0	0	0	0
	2330	"	1009 9	1002 9		24 2	22 0	20 7	24 6	81	·	1 8	·	10 3	0	2	29	2	0	0	0	0	0	0	0	0	0
	0530	62	1011 9	1004 9		26·0	22·6	20 8	24 6	73		1 0		14 4	0	1	30	1	1	0	0	0	0	0	0	0	0
	0830	"	1012 3	1005 4		28 1	23 3	20 8	24 7	65		1 1		21 6	0	17	14	3	14	3	0	0	0	0	0	0	0
	1130	"	1008 7	1001 8	..	28 2	23 9	21 7	26 1	68		1 9		7 4	0	0	19	1	3	1	0	0	0	0	0	0	0
	1730	"	1010 7	1004·7	·	23 6	21 7	20 5	24 4	84		2 6	·	4 9	0	0	14	3	1	0	0	0	0	0	0	0	0
	0530	52	1013 0	1007 2	·	25·2	22 5	21 4	25 2	78		1 6		17 0	0	6	25	3	5	3	0	0	0	0	0	0	0
Dabolim (Naval Air Station)	0830	"	1013 3	1007 5	..	28 3	23 1	20 2	24 0	63		1 7		25 8	0	26	5	2	1	0	0	0	0	0	1	0	0
	1130	"	1009 6	1003·8	·	28 4	23 7	21 1	25 5	64		0 2		5 2	0	0	29	2	0	1	0	0	0	0	0	0	0
	1730	"	1012 8	989·4	..	24 6	15·9	8·2	11 1	39		0 5		4 7	0	0	30	0	1	0	0	0	0	0	1	0	0
Madhya Maharashtra	0830	206	1007 5	985 3	..	34 5	19 1	6·0	9 6	18		0 5		9 5	0	1	27	1	2	0	0	0	0	0	0	0	0
Nandurbar	1730	"	1012 9	989 8	+1 1	22 1	13·9	5 3	9 3	35	−3	2 4	+1 9	16 6	0	10	19	1	0	0	0	0	0	0	0	0	0
	0830	201	1007 0	985 0		35 7	18 2	0 4	6 7	12	·	2 8		5 4	0	0	30	0	0	0	0	0	0	0	0	0	0
Jalgaon	1730	"	1012 2	985 0		21·2	13 5	5·8	9 3	37	−3	1 5	+0 4	10 3	0	4	25	2	1	0	0	0	0	0	0	0	0
	0830	437	1013 2	963 8	+0·6	34 2	18 8	5 9	9 2	19	..	2 7		(d) 8 4	0	3	19	3	4	1	0	0	0	0	0	0	0
Malegaon	1730	"	1006 6	959 4		21 7	14·0	7 2	10 4	41		1 0		(d) 16 6	0	10	15	2	2	0	0	0	0	0	0	0	0
	0830	608	·	·		30 4	17 1	6·7	9 8	23	·	1 1	·	(d) 20 3	0	14	18	1	1	0	0	0	0	0	0	0	0
Ozar	1130	"	·	·	·	32 6	18 0	6 8	10 0	21	·	1·8	·	5 4	0	0	25	0	0	0	0	0	0	0	0	0	0
	1730	"	·	·	·	21 3	13·4	6 3	9 7	40	..	1 2	..	15 7	0	7	28	1	1	0	0	0	0	0	0	0	0
	0830	571	1013 9	949 7		32 2	16 4	2 1	7 2	15	..	1 6	·	6 1	0	0	26	0	0	0	0	0	0	0	0	0	0
Deolali (Aerodrome)	1730	"	1007 8	946 2		22 0	13·5	6 0	9 3	36	+6	1 7	+0 9	11 2	0	2	29	1	0	0	0	0	0	0	0	0	0
	0830	657	1012 5	939 4	+0 1	33·9	17 6	4 1	8 2	16	·	3 1	·	9 7	0	1	24	1	0	0	0	0	0	0	0	0	0
Ahmadnagar	1730	"	1005 4	935 6	·	19 8	14·1	10 0	11 9	55	..	0 3	..	8 9	0	2	18	2	0	0	0	0	0	0	0	0	0
	0230	593	1011 1	944 4		17 9	13 6	9 9	12 4	61	·	0·4	..	10 3	0	2	22	2	0	0	0	0	0	0	0	0	0
Poona (Aerodrome)	0530	"	1011 5	944 4	·	21 4	14 5	8 6	11 5	46	·	1·6	..	16 0	0	7	23	0	0	0	0	0	0	0	0	0	0
	0830	"	1012 7	946 3		30 5	16 6	4 9	8 8	20	·	1·1	..														
	1130	"	1010 9	946 4	..																						

(d) Mean of 27 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Maharashtra—(*Contd*)																											
Poona (Aerodrome)—*Contd*	1730	593	1006 3	942 6		32 6	17 7	5 8	9 4	19		1 5		25 6	0	23	7	2	0	0	1	0	0	23	4	1	0
	2330	"	1011 5	945 4		22 3	15 7	10 5	13 0	48		0 3		14 4	0	3	28	1	1	0	0	0	0	23	6	0	0
Poona	0530	559	1011 9	948 2		16 5	11 9	7 3	10 7	57		0 3		0 3	0	0	2	0	0	0	0	0	0	2	0	29	0
	0830	"	1012 9	950 3	+0 5	21 7	14 5	8 6	11 2	44	0	1 2	+0 4	1 0	0	0	6	0	1	0	0	0	0	5	0	25	0
	1130	"	1010 9	950 1	.	30 9	16 8	4 9	8 8	20		0 8		6 3	0	1	23	3	1	8	1	0	0	7	4	7	0
	1430	"	1007 0	947 1		33 8	17 8	5 0	8 7	17		1 3	.	6 9	0	0	24	2	0	3	1	0	0	11	7	7	0
	1730	"	1006 4	946 3		32 6	17 9	6 6	9 8	20		0 8		8 8	0	2	23	1	0	1	0	0	0	20	3	6	0
	2030	"	1009 9	948·5		26 8	17 0	10 1	12 2	36		0		7 5	0	1	28	0	0	0	0	0	0	28	1	2	0
	2330	"	1011 7	949 3	.	22 5	15 3	9 8	12 2	45		0		1 8	0	0	9	0	0	0	0	0	1	7	1	22	0
Jeur .	0830	521	1012 0	953 7	+0 1	22·7	14 5	7 6	10 5	39	−3	1 3	+0 1	4 6	0	0	21	1	1	1	2	1	0	8	7	10	0
	1730	"	1004 9	949 3	.	35 4	18 4	4·8	8 7	15		2 6	.	8 4	0	0	31	5	1	1	0	2	4	11	7	0	0
Baramati .	0830	551	1012 6	951 0	+0 1	21 8	15 1	9·7	12 3	47	+2	0 7	−0 4	6 5	0	1	29	6	0	0	1	2	1	7	13	1	0
	1730	"	1005 4	946·6		34 6	20 2	10·7	13 1	24		0 9		11 1	0	3	28	6	2	1	1	7	5	3	6	0	0
Sholapur .	0530	479	1010 1	956 6		22 9	14 9	8 8	11 2	41		0 5	.	4 5	0	0	25	4	2	2	6	5	0	0	6	6	0
	0830	"	1012 2	959 0	+0 8	25 8	16 5	9 5	12 3	36	+1	3 5	+2 5	7 4	0	0	31	0	8	0	12	0	2	0	9	0	0
	1130	"	1010 5	958 5		33 1	19·3	9·8	12 2	24	..	0 2		8 3	0	0	30	5	5	0	3	9	3	1	4	1	0
	1730	"	1005 4	954 1		35 3	19 9	9 5	11 9	21	.	2 3		7 0	0	0	31	4	0	1	3	4	6	5	8	0	0
	2330	"	1009 7	957 0		27 9	16 6	7 9	10 7	28		1 5		5 3	0	0	26	4	3	1	6	2	1	4	5	5	0
Miraj . .	0830	554	1013 1	951·1	+0 8	21 9	16 6	12 9	15 1	58	+6	1 9	0 9					2	0	1	0	0	0	3	1	24	0
	1730	"	1005 9	946 8		34 4	21 2	13 2	15 5	29		3 2		.				0	1	0	2	0	3	10	4	11	0
Kolhapur .	0530	570	1010 6	945 6		19 6	15 1	11 6	13 9	63		0 8	.	3 9	0	0	24	0	2	3	0	1	1	17	0	7	0
	0830	"	1012 4	948 9	+0 4	22 7	16 1	11 1	13 6	49	−7	1 0	+0 1	2 7	0	0	16	0	4	2	1	1	0	5	3	15	0
	1130	"	1010 4	948 9		32 1	17 8	6 7	9 9	21	.	0 4	.	6 6	0	0	27	1	7	12	1	1	2	1	2	4	0
	1730	"	1005 9	944 9		33 1	19 1	9 3	11 9	24	.	0 8		14 8	0	4	27	1	0	2	1	0	0	20	7	0	0
	2330	"	1011 4	947 9		22 7	17 7	14 3	16 6	61		0 3		9 2	0	1	30	0	0	0	0	0	2	26	3	0	0
Marathwada Aurangabad .	0830	581	1012 4	948 1	+0 2	24 8	15 0	6 3	9 9	32	0	1 3	+0 2	5 1	0	1	22	4	5	6	0	3	2	0	3	8	0
	1730	"	1005 9	943 8		33 9	18 3	6 1	9 6	19		3 2		5 1	0	0	23	4	0	0	0	0	3	11	5	8	0
Aurangabad (Chikalthan) .	0230	579	1010 1	945 4		21 6	12 6	3 3	8 1	31		0 8		5 7	0	1	13	1	2	1	1	0	0	6	3	17	0
	0530	"	1010 6	945 6		19 5	11 7	3 4	8 1	36		0·7	.	5 1	0	0	13	3	0	1	0	0	0	8	1	18	0
	0830	"	1011 8	947 7		25 1	14 8	5 4	9 3	30		1 3		8 2	0	0	22	3	0	2	2	0	1	5	9	9	0
	1130	"	1010 5	947 7	.	31 0	17 1	5 3	9 3	21		1 2		12·1	0	3	24	3	2	3	5	1	3	5	5	4	0
	1430	"	1006 7	944 7	..	33 0	17 8	3 5	9 3	17		2 6	.	12 0	0	0	27	1	1	0	2	1	2	14	6	4	0
	1730	"	1005 7	943 6		33 4	17 8	4 8	9 0	18		2 7		12 2	0	4	23	3	0	1	2	0	2	9	10	4	0
	2030	"	1008 8	945 4		27 4	15 4	4 7	8 8	24		1 5		8 9	0	2	16	5	0	1	1	0	0	7	4	13	0
	2330	"	1010 5	946 4	.	24 3	13 8	3 8	8 2	28		1 0		8 3	0	2	15	2	2	1	0	0	0	7	5	14	0
Parbhani	0830	423	1012 6	965 3	+1 0	24 6	13 9	1 7	7 3	23	−17	1 5	+0 3	3·3	0	0	29	2	1	1	7	2	5	7	4	2	0
	1730	"	1006 0	960 5		35 1	17 7	−1 3	6 7	11		1 1		6 8	0	0	27	4	1	2	5	0	3	6	6	4	0
Nander . .	0830	358	1012 0	972 1		27 5	19 2	13 9	15 5	45	.		.	2·8	0	0	15	1	1	0	2	2	3	6	0	16	0
	1730	"	1006·8	968 1	.	35 5	22 5	14 3	16 9	29				5·0	0	0	23	3	3	1	3	0	2	4	7	8	0
Bir. . .	0830	519	1013 2	955 2		23 2	16 1	10 8	13 1	46		1 2		5 7	0	1	24	0	1	0	2	0	6	0	16	6	0
	1730	"	1007 2	951 5	.	34 6	20 6	11 7	14 0	25		2 7		9 8	0	1	29	0	3	0	4	0	5	0	18	1	0
Vidarbha Gondia	0830	313	1013·1	977 7	+0 7	23 2	16 4	10 7	13 1	47	0	2 4	+0 9	2·3	0	0	23	2	6	0	8	2	0	1	3	8	1
	1730	"	1007 5	973·2		32 0	18 7	6 9	10 7	24	.	2 4	.	3 0	0	0	28	6	1	2	0	5	5	4	5	3	0
Nagpur—(Sonegaon)	0230	310	1009 8	974 6		21 6	14 7	7 6	11 3	43		1 6	.	3 7	0	0	22	3	5	4	1	0	0	2	7	9	0
	0530	"	1010 7	975 2		19 9	14 0	8 0	11 3	49		1 8		3 5	0	0	24	8	6	2	0	0	0	0	8	7	0
	0830	"	1012 7	977 7	+0 9	24 3	15 9	8 1	11 2	38	0	2 0	+0 6	6 2	0	1	28	5	9	7	3	1	1	0	3	2	0
	1130	"	1011 4	977 2	.	31 6	18 3	6 7	10 4	22		2 1		9 7	0	4	27	3	11	1	4	4	2	1	5	0	0
	1430	"	1007 6	973 8	.	34 4	18 8	4 6	9 0	17		2 9		11 5	0	4	27	5	2	2	3	2	5	5	7	0	0
	1730	"	1006·6	972 8		33 4	18 1	3 8	8 4	17		2 7	.	9·7	0	2	26	3	4	0	4	3	5	5	4	3	0
	2030	"	1009 4	974 7	..	26 9	16 3	6 4	10 2	29	.	2 3		6 9	0	2	25	4	3	4	6	1	1	4	4	4	0
	2330	"	1010 4	975 4		24 1	15 6	7 5	10 9	37		2 1	.	5 0	0	0	25	6	4	2	4	1	1	2	5	6	0
Amraoti .	0830	370	1012 3	970 9	+0 7	25 9	15 0	3 3	8·2	25	−7	1·8	+0 6	3 5	0	0	28	2	12	3	5	0	3	3	0	3	0
	1730	"	1006 4	966 4		34 0	17 5	0 3	6 2	13	..	2 7		6 7	0	0	31	2	2	1	3	2	7	7	7	0	0
Akola Aerodrome	0530	309	1009 5	974 2		21 2	12 4	1 8	7 3	29		1 9		10 1	0	1	29	3	2	4	1	1	8	8	3	1	0
	0830	"	1011 7	976 8		24 5	14 6	4·9	8 7	28		2 0	.	9·8	0	1	30	3	6	4	0	1	4	8	5	0	0
	1130	"	1010 8	976 7	.	32 0	17 8	4 6	8 8	19	..	1 7		11 9	0	2	29	3	6	3	0	3	2	2	12	0	0
	1730	"	1005 7	972 1		34 9	18 2	1 8	7 3	13	.	3 1	.	11 7	0	3	28	4	0	0	1	0	4	9	13	0	0
	2330	"	1009 2	974 6		26 6	14 9	2 1	7 5	22	..	2 2		11 0	0	1	30	1	5	2	3	1	3	7	9	0	0

Sub-Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas)		Mean wind speed, Km. per hour	Wind speed (km p. h)			No of observation									
			At mean sea level or height in g p m of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point				Mean amount	Departure from normal		62 or more	20 to 61	1 to 19	Wind direction									
																		N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidarbha—*Contd.*																											
Akola	0830	282	1012 3	980 3	+0 3	24·1	15 0	6 3	9 7	33	+1	2 3	+1 0	1 5	0	0	19	0	2	5	0	0	0	11	1	12	0
	1730	"	1006 1	975 5	.	35 3	19 0	4 2	8 7	15		3 2		2 5	0	0	28	0	2	4	0	0	2	15	5	3	0
Bramhapuri .	0830	229	1012 9	986 8	.	24 5	17 1	11 0	13 3	44		1 9		3 0	0	0	29	6	4	3	9	6	1	0	0	2	0
	1730	"	1007 5	982 4		34 0	20 0	9 4	12 0	24		2 3		4 0	0	0	26	4	4	3	4	4	4	2	1	5	0
Buldana	0830	650	1012 0	940 0	+0 7	23 7	14 3	5 6	9 5	33	−9	1 2	−0 2	11 4	0	0	30	3	1	3	5	1	0	0	17	1	0
	1730	"	1005 9	936 2	.	31 8	17 0	4 7	8 6	18		2 9	.	8 0	0	0	30	3	4	0	2	0	1	2	18	1	0
Yeotmal .	0830	451	1011 5	961 4	+0 1	26 2	15 1	2 9	8 2	24	−14	2 3	0	9 3	0	1	30	6	1	10	2	6	0	5	1	0	0
	1730	"	1005 8	957 3		34 1	17 4	−0 3 (a)	6 3	12		2 4		10 5	0	5	26	3	2	2	3	3	4	12	2	0	0
Chanda .	0830	193	1012 2	990 3	+0 3	25 1	17 2	10 7	13 2	42	0	2 1	+0 9	4 7	0	0	29	2	2	3	10	5	0	2	5	2	0
	1730	"	1006 6	985 5	.	35 0	19 3	5 9	9 6	17		2 7		5 0	0	0	31	4	4	1	5	7	2	3	5	0	0
Pusad .	0830	334	1012 5	974 9		24 9	16 4	8 7	11 7	39		2 3		4 3	0	0	24	2	1	4	1	0	1	2	13	7	0
	1730	"	1006 4	970 3	.	35 3	21 0	9 7	13 2	24	.	3 1		5 9	0	0	31	0	3	2	4	0	13	1	8	0	0
Sironcha .	0830	123	1013 3	999 3	+0 8	26 0	20 0	16 0	18 5	55	−2	1 9	+0 2	3 3	0	0	31	0	1	1	28	1	0	0	0	0	0
	1730	"	1007 6	994 1	.	35 4	21 1	11 0	13 4	24	..	2 1	..	6 2	0	0	29	0	2	0	10	5	8	1	3	2	0
Coastal Andhra Pradesh																											
Kalingapatam	0830	6	1013 7	1013 0	+1 3	26 1	23 4	22 0	26 6	78	+3	1 4	−0 3	7 9	0	3	27	4	2	0	0	7	8	1	6	1	2
	1730	"	1010 2	1009 5	..	28 0	24 9	23 4	28 9	77		1 1		11 2	0	3	28	0	1	0	0	12	9	0	0	0	3
Vishakhapatnam .	0230	3	1011 1	1010 7	.	23 8	21 9	20 9	24 7	84		0 9	.	0 7	0	0	2	0	0	0	0	0	0	1	1	29	0
	0530	"	1011 5	1011 1	..	22 7	21 1	20 3	23 7	86	..	0 8	..	0 5	0	0	3	0	0	0	0	0	0	1	2	28	0
	0830	"	1013 7	1013 3	+1 2	26 9	22 9	20 8	24·6	79	−3	1 6	−0 7	3 9	0	0	11	0	0	0	0	0	5	3	3	20	0
	1130	"	1012 9	1012 5		32 0	23 4	18 7	21 7	46	.	1 3		13 7	0	5	26	0	0	0	8	2	18	1	1	0	1
	1430	"	1010 1	1009 7	.	32 1	23 1	18 5	20 9	45		1 0		16 5	0	8	23	0	0	0	7	7	15	1	1	0	0
	1730	"	1010 0	1009 6	.	28 9	23 2	20 2	23 8	60		1 5		14 1	0	5	26	0	0	0	4	9	17	0	0	0	1
	2030	"	1012 1	1011 7		26 6	23 4	21 7	26 1	75	.	0 5	.	3 9	0	1	12	0	0	0	1	3	6	2	1	18	0
	2330	"	1012 5	1012 1	..	25 1	22 6	21 3	25 3	79	.	0 6	.	1 8	0	0	7	0	0	0	0	0	3	2	2	24	0
Kakinada .	0830	8	1013 7	1012 8	+1 0	25 8	22 1	20 0	23 5	70	−4	2 1	−0 6	6 7	0	0	29	1	12	0	14	0	2	0	0	2	0
	1730	"	1009·7	1008 8	.	29 3	23 2	20·0	23 5	58		1 0	..	14 9	0	3	28	0	0	0	27	4	0	0	0	0	0
Nidadavole	0830	12	1013 5	1012 1	..	25 6	22 7	21 2	25 3	77	..	3 4		6 0	0	0	31	4	17	8	1	1	0	0	0	0	0
	1730	"	1009 4	1008 0		31 0	23 9	20 3	23 8	54	..	2 7		6 2	0	0	31	0	1	5	2	10	7	6	0	0	0
Rentachintala	0830	106	1012 4	1000 4	.	27 1	22 0	20 0	23 5	66	+4	0 9	−2 2	2 7	0	0	29	0	0	13	0	15	0	1	0	2	0
	1730	"	1007 9	996 3	.	35·2	23 2	16 3	18 6	34	.	1 1		2 8	0	0	29	1	0	24	0	3	0	1	0	2	0
Gannavaram . .	0230	24	1010 4	1007·7		23 2	21·9	21·3	25 3	89		1 4		4 3	0	0	17	2	0	5	5	4	0	0	1	14	0
	0530	"	1010 9	1008 1	.	22 4	21 8	21 4	25 6	92	..	2 0		4 1	0	0	16	2	0	8	4	1	0	0	1	15	0
	0830	"	1013 3	1010 5	+0 8	26 2	23 5	22 1	26 6	78	+2	3 2	+0 5	9 8	0	2	28	0	2	11	7	10	0	0	0	1	0
	1130	"	1012 6	1009 9	..	31·5	23 3	19 2	21 8	48	.	1 9		12 5	0	4	27	0	0	3	10	14	3	1	0	0	0
	1430	"	1019 5	1006 8	.	33 6	22 7	16 3	18 6	37	.	1 7		13 8	0	8	23	0	0	3	14	13	1	0	0	0	0
	1730	"	1019 1	1006 4	..	31 7	22 8	17 6	20 5	45	.	1 4		16 0	0	10	21	0	0	4	12	15	0	0	0	0	0
	2030	"	1011 4	1008·7	..	26·2	22 5	20 3	24 1	71	.	0 8		8 5	0	1	28	0	0	1	12	16	0	0	0	2	0
	2330	"	1012 0	1009 3		24 3	22 3	21·3	25 3	83		0 8		4 6	0	1	18	0	0	4	8	5	1	0	1	12	0
Nagarjunakonda (R)	0830	126																									
(R)	1730	"																									
Masulipatam .	0830	3	1013 1	1012 8	+0 7	26 4	23 8	22 5	27 4	79	0	2 4	+0 1	2 7	0	0	21	1	1	5	5	4	2	0	2	10	1
	1730	"	1009 7	1009 4		28 5	23 7	21 3	25 3	66	.	1 4 (a)	.	4 5	0	0	31	0	0	11	14	1	0	0	0	0	5
Ongole .	0830	12	1012 8	1011 5	.	27 5	24·7	23 4	28 8	79		2 3	.	2 5 (a)	0	0	22	0	0	2	16	0	0	2	2	8	0
	1730	"	1009 1	1007·9		29 5	25 2	23 0	28 6	69	.	1 2		6 3	0	0	31	0	0	26	5	0	0	0	0	0	0
Nellore . .	0530	20	1010 8	1008·5		23 3	22 4	21 9	26 3	92		1 3		2 9	0	0	23	0	2	8	9	1	2	0	1	8	0
	0830	"	1012 7	1010 4	+0 7	27 2	23·9	22·3	26 9	74	−4	2 5	+0 4	5 4	0	0	24	0	0	1	17	4	1	1	0	7	0
	1130	"	1012 2	1009 9	.	32 4	24 9	21 3	25 3	52	.	1 5	.	6 8	0	0	31	1	2	7	13	7	1	0	0	0	0
	1730	"	1009 1	1006·9		30 0	24 9	22 3	27 3	65		2 1	..	11 7	0	1	30	0	3	24	4	0	0	0	0	0	0
	2330	"	1011 9	1009 7	..	25 4	23·7	22 9	27·9	86	.	1 1		3 2	0	0	26	0	2	15	9	0	0	0	0	5	0
Telangana																											
Ramgundam . .	0830	156	1012 5	994 8	+0 3	26 8	19 8	15 1	17 4	48	−4	2·0	+0 1	4 6	0	0	27	2	2	3	15	5	0	0	0	4	0
	1730	"	1007·1	990 0	.	35 3	20 8	10 3	12 8	23	.	1·3	..	3 7	0	0	27	1	2	3	9	9	1	0	2	4	0
Nizamabad .	0830	381	1012 1	969 7	+0 5	26·9	17 1	8 8	11 5	34	−10	1 7	+0 5	1 0	0	0	9	0	0	0	0	1	1	3	4	22	0
	1730	"	1006 2	965 1	.	35 5	19 7	7 3	10 0	20	.	2 1	.	1 2	0	0	11	0	5	1	2	0	0	0	3	20	0
Hanamkonda	0830	269	1012 4	982·0	+0 1	24 3	20 5	18 0	21 9	69	+7	1·3	+0 7	1 7	0	0	28	1	0	0	2	25	0	0	0	3	0
	1730	"	1009 0	979 6	.	33 3	20 2	10 5	13 0	27	..	0 4	..	2 0	0	0	31	3	0	0	13	14	0	1	0	0	0
Hakimpet(Aerodrome)	0530	613	1010 3	942 0	..	21 5	16 1	11·9	13 9	57	..	1·8	..	10 9	0	1	28	2	1	2	15	6	0	1	2	2	0
	0830	"	1011·5	944·0	..	25 0	17 9	12·4	14 4	49	..	2·1	..	12·2	0	2	28	3	1	1	13	3	3	5	1	1	0

(R) Register not received.

(a) Mean of 30 days.

Sub-Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g p m of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Wind speed (km p h.): Mean wind speed, in Km per hour	Wind speed (km p h.): 62 or more	Wind speed (km p h.): 20 to 61	Wind speed (km p h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Telangana—*contd*																											
Jakimpet (Aerodrome)—(*contd*)	1130	613	1010 3	944 1		31 1	18 9	10 5	12 7	29		1 6		14 3	0	3	28	1	2	1	7	5	7	5	1	0	2
	1730	,,	1006 9	941 3		32 0	19 3	10 6	12 8	28		2 2		13 3	0	2	28	3	0	1	15	5	1	1	3	1	1
	2330	,,	1010 2	942 7	.	25 1	17 5	12 0	14 0	45		0 7		13 2	0	2	28	0	2	1	21	4	1	0	1	1	0
Bhadrachalam	0830	111	1012 4	999 8	—0 4	25 7	22 4	20 7	24 4	74	+2	2 5	—0 4	2 7	0	0	30	0	6	0	19	1	4	0	0	1	0
	1730	,,	1007 7	995 5		34 6	21 9	13 6	15 9	30		1 5		3 2	0	0	31	0	5	0	22	1	3	0	0	0	0
Hyderabad (Begampet)	0230	545	1009 4	948 9		23 1	16 3	11 3	13 6	48		0 9		5 8	0	0	26	1	1	3	18	2	0	0	1	5	0
	0530	,,	1009 9	949 3		21 1	15 6	11 3	13 7	55		1 3		4 1	0	0	21	4	1	2	10	1	0	2	1	10	0
	0830	,,	1012 3	952 0	+1 0	24 0	16 7	10 2	13 1	42	—1 5	1 8	+0 4	7 8	0	1	24	3	3	0	8	3	5	0	3	6	0
	1130	,,	1010 8	951 8		31 5	17 9	7 3	10 5	23		1 2		11 3	0	0	31	3	1	2	9	4	8	3	1	0	0
	1730	,,	1006 4	948 0		30 0	18 5	7 6	10 7	21	.	2 1		12 9	0	1	30	2	1	6	10	4	3	2	2	0	1
	2330	,,	1010 5	950 3		25 4	16 9	10 7	13 0	41		0 7		7 9	0	0	28	1	1	3	21	0	0	0	2	3	0
Khammam	0830	112	1012 3	1000 1		25 6	22 6	21 1	25 0	77		4 0		6 0	0	0	31	0	0	6	13	10	2	0	0	0	0
	1730	,,	1007 4	995 7		34 9	22 4	15 0	16 9	35		2 4	.	5 6	0	0	25	0	0	5	6	12	1	0	1	6	0
Mahbubnagar	0830	505	1011 8	955 9		26 0	17 3	10 6	13 4	39		1 3		7 6	0	0	30	2	2	6	4	1	8	2	5	1	0
	1730	,,	1006 3	952 0		33 5	18 7	7 9	10 7	21		1 7		3 2	0	0	26	0	1	7	6	5	4	2	1	5	0
Rayalaseema Kurnool	0830	281	1012 3	980 7	+0 9	26 1	20 3	16 7	19·1	57	+8	0 8	—0 2	6 3	0	0	31	0	0	0	4	0	12	0	14	0	1
	1730	,,	1006 5	976 0	.	35 3	23 8	17 3	20 0	36		1 3		5 9	0	1	28	2	2	1	5	2	4	4	4	2	5
Anantapur	0530	330	1010 0	970 5	.	22 5	18 7	16 1	18 4	68	.	0 5		3 0	0	0	9	0	0	2	3	1	3	0	0	22	0
	0830	,,	1011 9	972 8	+0 6	25 8	20 2	16 6	19 1	58	+1 0	0 5	—0 5	3 7	0	0	11	0	0	1	1	1	4	3	1	20	0
	1130	,,	1010 6	972 3		32 2	21 9	15 2	17 8	37		0 2		6 3	0	1	20	4	2	7	4	1	3	0	0	10	0
	1430	,,	1006 7	969 0		35 4	22 6	14 4	16 9	30		0 8	.	8 8	0	2	26	1	5	14	5	0	1	1	1	3	0
	1730	,,	1005 7	967 9		35 0	22 8	15 0	17 8	32	..	0 9		9 9	0	0	28	0	6	17	1	0	1	2	1	3	0
	2030	,,	1008 6	970 2		30 9	21 4	15 4	17 7	40		0 6		9 7	0	2	20	0	1	18	2	0	0	1	0	9	0
	2330	,,	1009 9	971 1		28 1	20 4	15 1	17 7	47		0 4	.	12 8	0	4	22	0	0	18	5	0	0	1	2	5	0
Cuddapah	0830	130	1012 3	997 6	+0 7	27 9	23 3	20 8	24 9	66	+9	0 4	—0 8	3 0	0	0	19	0	0	17	0	0	0	2	0	12	0
	1730	,,	1007 1	992 9		35 5	27 1	23 3	28·9	51		1 3		4 1	0	0	24	0	2	21	0	0	0	1	0	7	0
Arogyavaram	0830	701	1012 3	935 3		24 0	19 0	15 1	17·7	60		1 5		8 2	0	1	27	0	0	1	11	6	9	0	0	3	1
	1730	,,	1006 5	931 6		31 1	20 0	12 5	15·3	35		1 5	.	10 3	0	0	31	0	5	17	5	2	0	0	2	0	0
Madras State (including Pondicherry) Madras	0830	6	1013 3	1012 6		27 5	24 1	22 4	27 1	75	.	2 8		3 9	0	0	18	0	0	1	7	3	3	4	0	13	0
	1730	,,	1009 5	1008·7	..	28 7	24·4	22 3	26 9	69		1 0	..	6 3	0	0	27	0	0	5	19	3	0	0	0	4	0
Madras ((Minambakkam)	0230	16	1010 8	1009 0		24 5	23 0	22·3	26 9	88		1 2		2 3	0	0	13	1	1	0	1	2	3	3	2	18	0
	0530	,,	1011 1	1009 4		23 8	22 7	22 2	26·6	91		1 6	.	3 5	0	0	18	1	1	0	1	3	2	7	3	13	0
	0830	,,	1013 3	1011 6	+1 0	26 8	23 7	22 2	26 7	76	—1	2 3	+0 2	8·1	0	0	28	1	0	0	3	10	3	7	4	3	0
	1130	,,	1012 6	1010 9		31 3	23 9	20 1	23 5	52	..	2 0		9 0	0	1	27	0	0	11	5	7	3	2	0	3	0
	1430	,,	1010 0	1008 1		31 8	24 4	20 8	24 6	53	..	1 1	.	7·5	0	11	20	0	0	10	17	4	0	0	0	0	0
	1730	,,	1009 5	1007 8		29 3	24 0	21 2	25 6	63	.	1 3	.	16 7	0	8	23	0	0	11	6	4	0	0	0	0	0
	2030	,,	1011 6	1009 8		26 6	23 8	22 4	27 3	78	..	0 3		9 5	0	3	21	0	0	6	12	6	0	0	0	7	0
	2330	,,	1012 3	1010 5		25 4	23 5	22 5	27 3	84	..	0 8		6 8	0	2	20	1	0	5	12	3	0	0	1	9	0
Vellore	0530	214	1011 3	986 8		22 2	20 5	19 6	23 4	85	..	1 4	.	0·5	0	0	4	0	0	1	2	1	0	0	0	27	0
	0830	,,	1013 2	988 9	+1 1	24 1	21 4	19 6	23 4	74	—2	2 2	+0 4	3 9	0	0	23	1	0	0	2	7	4	3	1	8	0
	1130	,,	1012 3	988 6		30 7	22 8	18 3	21·3	48		1 5	..	4 6	0	0	29	1	1	1	13	6	12	2	3	2	0
	1730	,,	1007 9	984 4	.	33 1	21 6	14 2	16 4	33	.	1 2	.	9 2	0	1	30	0	3	3	12	3	0	0	0	0	0
	2330	,,	1012 3	988 1		25 3	21 3	19 5	23 1	69	.	0 7	.	2 3	0	0	16	0	2	4	7	3	0	0	0	15	0
Tambaram (Aerodrome)	0830	29	1012 9	1009 6		27 4	24·4	23 1	28 1	77		2 6	.	11 0	0	4	22	1	0	1	2	10	3	7	2	5	0
	1730	,,	1009 2	1005 9	.	30·2	24 0	29·6	24 7	58		1 2	..	28 2	0	25	6	0	0	20	11	0	0	0	0	0	0
Tiruppattur	0830	390	1013 2	969 2		22 3	19·9	18 4	21 1	79		5 0	..	2·5	0	0	31	29	2	0	0	0	0	0	0	0	0
	1730	,,	1007 5	965 0	..	32 0	22 1	16 1	18 3	39	..	6 0	..	7·7	0	0	31	8	15	6	0	1	0	1	0	0	0
Mettur Dam R S.	0830	.	.			27 0	23 5	21 7	25·8	73	..	1 7	.	3 8	0	0	31	0	8	0	12	0	7	0	4	0	0
	1730	.	.	.		29 8	25 7	23·8	30 7	71	.	1 7	..	4 8	0	0	31	0	2	0	20	0	9	0	0	0	0
Cuddalore	0530	12	1011 0	1009 6	.	23 3	22 4	21 9	26 3	92	.	1 6	.	0·3	0	0	2	0	0	0	1	0	0	1	0	29	0
	0830	,,	1013 2	1011 8	+0 7	26 7	24 1	22 8	27 7	80	0	3 0	+0 5	5 5	0	0	30	1	7	0	16	0	1	0	5	1	0
	1130	,,	1002 8	1011·5	..	30 2	25 2	22·6	27·4	64	.	2 7		9·0	0	0	31	1	5	10	15	0	0	0	0	0	0
	1730	,,	1009 2	1007 9	..	28·7	24 7	23 1	28 3	72	.	2·3	.	15 1	0	10	21	0	1	10	20	0	0	0	0	0	0
	2330	,,	1012 0	1010·0	.	26 1	24 1	23·1	28 3	85		1 7	.	4·3	0	0	18	0	1	3	14	0	0	0	0	13	0
Kallakkurichchi	0830	127	1013 1	998 7		26 2	22 9	20 9	24 7	74		3 2		5 0	0	0	26	1	1	1	4	1	5	0	13	5	0
	1730	.	1007 8	993 8		33 9	23 0	16 5	18 8	37	.	2 3		10 0	0	0	31	0	8	11	12	0	0	0	0	0	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Wind speed (K.m.p.h.): Mean wind speed, in Kms per hour	Wind speed (K.m.p.h.): 62 or more	Wind speed (K.m.p.h.): 20 to 61	Wind speed (K.m.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—(including Pondicherry)—*Contd*																											
Salem	0530	278	1010 8	979 3		23 0	19 4	17 1	19 6	71		0 8		2 1	0	0	11	0	0	9	0	1	0	1	0	20	0
	0830	,,	1013 1	981 8	+0 8	24 9	20 4	17 2	19 6	62	−8	1 7	+0 2	1 5	0	0	12	0	0	12	0	0	0	0	0	19	0
	1130	,,	1011 7	981 1		31 1	20 9	14 1	16 1	37		1 4		5 5	0	0	29	0	1	10	3	8	0	5	0	2	2
	1730	,,	1006 6	976 3		34 1	20 5	10 3	12 5	25	.	2 3		7 5	0	0	27	0	2	14	2	3	2	2	0	4	2
	2330	,,	1011 1	980 0		26 6	20 2	15 6	18 4	52	.	1 9	.	10 6	0	2	26	0	3	23	0	2	0	0	0	3	0
	2330	,,	1011 3	966 1	.	21 1	19 0	17 3	20 7	81		0 6		8 3	0	0	22	5	5	2	0	4	5	0	1	9	0
Coimbatore Pilamedu	0530	399	1011 3	966 1	.	21 1	19 0	17 3	20 7	81		0 6		8 3	0	0	22	5	5	2	0	4	5	0	1	9	0
	0830	,,	1013 2	968 4	.	24 5	20 8	18 5	21 7	70		1 3		11 4	0	1	26	5	12	3	1	4	2	0	0	4	0
	1130	,,	1011 9	967 9		30 1	21 6	16 0	19 0	44		1 8		12 2	0	3	23	2	8	10	1	3	2	0	0	5	0
	1730	,,	1007 0	963 8		32 6	20 9	12 4	15 4	32		1 9		17 6	0	10	21	0	11	8	2	4	4	1	1	0	0
	2330	,,	1011 6	967 0	.	24 5	20 5	17 7	21 2	69		0 9	..	14 1	0	6	21	0	3	4	1	14	4	1	0	4	0
Coimbatore	0830	409	1013 7	967 4	+0 9	25 7	20 4	17 6	20 1	64	−11	1 6	−1 0	20 8	0	24	7	1	0	12	12	0	0	3	3	0	0
Nagapattinam	0830	9	1013 4	1012 3	+1 2	27 9	23 9	22 0	27 3	71	−4	2 6	−0 9	9 5	0	0	30	2	10	2	2	6	2	2	4	1	0
	1730	,,	1009 4	1008 3		29 1	24 7	22 7	27 6	68	.	2 6		19 2	0	11	17	0	8	8	14	1	0	0	0	0	0
	2330	68	1010 4	1000 4	.	24 2	22 5	21 7	25 9	86	.	1 7		8 7	0	0	28	2	13	3	3	7	0	0	0	3	0
Tiruchirappalli	0530	,,	1010 8	1000 7		23 3	21 9	21 1	25 0	88		2 2		4 1	0	0	15	1	6	1	1	3	0	0	3	16	0
	0830	,,	1012 9	1002 9	+0 2	26 7	23 4	21 8	26 1	75	−2	2 9	+0 6	11 1	0	2	26	2	8	6	3	4	2	3	0	3	0
	1130	,,	1012 2	1002 4	.	31 3	24 4	20 9	25 0	54		2 5	..	11 9	0	3	28	1	11	5	5	1	6	1	1	0	0
	1430	,,	1008 7	998 9	.	33 6	24 6	20 0	23 3	46	.	2 8		13 4	0	6	24	3	9	8	5	3	0	1	1	1	0
	1730	,,	1007 7	998 0		33 6	24 9	20 5	24 1	47		2 1		19 9	0	17	14	1	5	16	8	0	0	0	1	0	0
	2030	,,	1010 3	1000 5	.	28 8	24 1	21 7	25 8	66		0 9		19 2	0	13	18	0	1	14	12	3	0	0	1	0	0
	2330	,,	1011 7	1001 7		26 0	23 4	22 1	26 6	79		0 9		13 5	0	0	31	0	7	10	9	5	0	0	0	0	0
Vedaranniyam	0830	4	1013 1	1012 6		27 4	23 5	21 9	26 3	73	.	1 6		3 9	0	0	31	0	20	0	1	1	9	0	0	0	0
	1730	,,	1009 4	1008 9	..	29 1	24 0	21 5	25 6	64	.	1 3		3 2	0	0	31	0	17	0	4	2	8	0	0	0	0
Adirampattinam	0830	6	1012 8	1012 1		26 9	23 9	22 4	27 3	77		2 6		9 5	0	1	30	11	2	0	2	7	2	0	7	0	0
	1730	,,	1008 9	1008 2		30 1	24 4	21 4	25 9	60		2 4		18 3	0	16	15	0	5	1	18	7	0	0	0	0	0
Madurai	0830	133	1013 1	998 1	+0 9	26 8	22 9	20 9	24 9	70	+1	3 0	−0 4	3 7	0	0	26	8	13	2	2	0	0	0	1	5	0
Madurai Aerodrome	0530	131	1011 2	996 1		22 8	21 5	20 8	24 6	89		1 3		3 3	0	0	22	3	15	3	0	1	0	0	0	9	0
	0830	,,	1013 3	998 4		26 8	23 1	21 2	25 2	72		1 5		7 9	0	0	31	7	18	3	2	1	0	0	0	0	0
	1130	,,	1012 3	997 4		31 5	23 2	18 7	21 6	47	..	2 1		9 0	0	0	31	5	12	10	2	1	0	0	0	0	0
	1730	,,	1008 0	993 5		33 5	22 7	16 4	18 6	37	.	2 3		12 8	0	3	27	1	8	13	5	1	0	0	0	1	0
	2330	,,	1011 1	1012 5		27 2	24 4	23 1	27 3	78		2 7	.	8 5	0	1	30	14	5	1	5	5	1	0	0	0	0
Tondi	0830	5	1013 1	1012 5		27 2	24 4	23 1	27 3	78		2 7	.	8 5	0	1	30	14	5	1	5	5	1	0	0	0	0
	1730	,,	1009 3	1008 7		29 0	25 6	24 2	29 1	75	..	2 7	.	20 5	0	18	13	0	7	12	4	8	0	0	0	1	0
Pamban	0830	11	1012 4	1011 1	+0 5	27 4	24 5	23 1	28 3	78	+2	2 6	0	5 2	0	0	26	0	8	6	5	7	0	0	0	5	0
	1730	,,	1009 4	1008 1		28 3	24 9	23·2	28 6	73	.	3 0	.	6 4	0	0	31	3	13	2	5	8	0	0	0	0	0
Tuticorin	0830	4	1013 0	1012 6	+0 4	27 3	23 9	22 3	26 9	74	0	2 1	−0 4	7 0	0	0	30	16	4	0	2	2	1	2	3	1	0
	1730	,,	1008 9	1008 5		29 0	25 0	23 1	28 4	71		2 0	.	25 3	0	27	4	1	1	13	8	8	0	0	0	0	0
Palayankottai	0830	51	1012 9	1007 2	+0 9	27 3	23 2	21 0	25 0	69	−4	3 0	−0 3	5 0	0	0	29	21	1	0	1	0	0	5	1	2	0
	1730	,,	1008 2	1002 6		32 5	23 8	19 3	22 4	46		3 4		16 1	0	8	23	1	4	12	7	5	0	0	2	0	0
Kanniyakumari	0830	37	1012 3	100 2		28 0	23 1	20 6	24 3	65		2 3		16 0	0	11	20	5	13	1	0	0	0	7	5	0	0
	1730	,,	1009 0	1004 7		29 1	24 3	22 2	26 4	66		2 7		17 2	0	15	16	0	5	9	3	1	1	10	2	0	0
Coastal Mysore																											
Karwar	0830	4	1013 0	1012 5	+1 1	24 8	22 7	21 5	25 9	82	+1	1 0	−0 8	4 8	0	0	29	0	5	17	0	0	0	0	2	2	5
	1730	,,	1009 7	1009 2	.	28 9	25 9	24 5	30 9	77		2 0		18 5	0	15	16	0	0	0	0	0	0	1	30	0	0
Honavar	0830	26	1012 9	1010 0	+0 7	24 2	22 0	20 8	24 6	81	+3	2 8	−0 2	4 4	0	0	29	0	0	29	0	0	0	0	0	2	0
	1730	,,	1009 3	1006 3		29 3	24 4	22 1	26 6	65		2 8		7 7	0	0	31	0	0	0	0	0	0	18	13	0	0
Mangalore (Bajpe)	0230	102	1010 5	998 9	.	24 8	23 2	22 4	27 1	87		1 0		1 7	0	0	12	1	2	8	0	0	0	0	0	19	0
	0530	,,	1010 6	999 0		23 9	22 7	22 0	26 6	89		1 8		2 6	0	0	17	0	4	11	2	0	0	0	0	14	0
	0830	,,	1012 6	1001 1		26 8	23 7	22 1	26 7	76		1 4	.	3 9	0	0	24	0	7	15	2	0	0	0	0	7	0
	1130	,,	1012 3	1001 0		31 3	24·3	20·7	24 7	53		2 4		7 2	0	0	29	3	2	3	1	0	4	8	7	2	1
	1430	,,	1009·4	998 1		31 3	25 1	22 1	26·7	58		2 3		15 0	0	0	31	0	0	0	0	0	1	23	7	0	0
	1730	,,	1008 9	997 5		28 9	24 5	22 2	27 1	66	.	2 8		13 5	0	0	31	0	0	0	0	0	1	17	13	0	0
	2030	,,	1011 1	999 6		26 8	24 0	22 6	27·4	78	.	2 3		6·6	0	0	27	0	0	0	0	0	0	9	18	4	0
	2330	,,	1011 8	1000 3		25 8	23 6	22 6	27 3	83		1 6		2 2	0	0	13	6	1	0	0	0	0	1	5	18	0
Mangalore	0830	22	1012 7	1012 2	+0 8	27 6	23 6	21 6	25 8	70	−4	1 0	−0 8	3 4	0	0	31	1	4	25	1	0	0	0	0	0	0
	1730	,,	1009 1	1006 6		29 8	25 8	24 0	30 0	71		1 8	..	7 2	0	0	31	1	0	0	0	0	1	2	20	0	7
Interior Mysore North																											
Bidar	0830	664	1011 9	938 8		25 0	16 4	10 0	12 3	39	−2	1 2	−0 6	11 0	0	4	22	2	2	0	0	7	11	1	3	5	0
	1730	,,	1005 6	934 7		32·9	18 5	7 4	10 8	21	.	2 5		7·1	0	1	20	0	2	6	0	2	10	3	1	10	0

Sub-Division and station	Hour of observation I S.T	Station elevation in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas)		Mean wind speed, in Km per hour	Wind speed (Km p h)			No. of observations									
			At mean sea level or height in g p m of nearest standard isobaric level	At station level	Departure fro normal	Dry bulb	Wet bulb	Dew point				Mean amount	Departure from normal		62 or more	20 to 61	1 to 19	Wind direction								Calm	Variable
																		N	NE	E	SE	S	SW	W	NW		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore North —Contd.																											
Gulbarga	0830	458	1011 9	961 1	+0 7	27 5	16 6	8 1	10 9	32	−9	1 3	+0 6	6 3	0	0	23	3	2	4	4	6	0	0	4	8	0
	1730	„	1005 6	956 5	..	35 0	18 1	4 9	8 4	15		3 4		8 3	0	1	27	1	3	5	6	4	3	4	2	3	0
Bijapur	0830	594	1011 9	946 1	+0·4	24 2	17 0	12 2	14 2	48	+1	0 7	−0 2	1 5	0	0	21	12	0	0	4	3	0	0	2	10	0
	1730	„	1004 5	941 2		34 5	20 8	12 5	14 5	28		2 7	.	1 8	0	0	24	9	2	1	1	4	2	4	1	7	0
Raichur	0830	400	1012 2	967 8	+1 1	26 6	18 9	13 8	15 6	44	−3	3 1	+2 1	3 5	0	0	22	2	3	0	8	0	5	0	3	9	1
	1730	„	1006·2	963 3	.	35 0	21 3	11 5	14 1	27	.	2 9		5 5	0	0	31	0	9	0	18	0	3	0	1	0	0
Belgaum	0830	753	1012 6	929 3	+0 4	20 7	16 1	12 9	15 0	63	+3	0 7	−0 2	1 2	0	0	10	1	0	4	0	2	1	2	0	21	0
	1730	„	1006 3	925 8		30 1	20 1	13 7	16 2	39	.	1 6		6 0	0	0	31	3	0	0	0	0	0	18	9	0	1
Belgaum (Samra)	0530	747	1010 9	927 8	..	19 4	15 0	11 5	13 8	64	.	1 6	.	2 9	0	0	17	4	3	1	2	2	1	2	2	14	0
	0830	„	1012 2	929 9	.	22 9	16 2	11 1	13 6	50		1 6		3 9	0	0	25	2	10	4	3	0	0	5	1	6	0
	1130	„	1010 2	930 0	.	30·1	17 0	6 2	9 8	23		0 9	.	8 5	0	1	29	5	8	1	4	3	3	3	3	1	0
	1430	„	1006 3	927 1	.	32 9	17 7	5 4	9 1	18		2·5	.	9 9	0	3	28	3	2	3	2	2	6	7	6	0	0
	1730	„	1005 9	926 3	..	31 4	19 2	10.6	13 3	30		2 7	..	15 0	0	10	21	1	3	0	0	0	5	18	3	0	0
	2030	„	1009 6	928 1		25 1	20 0	17 0	19 9	62		1 0		11 8	0	2	29	0	0	0	0	0	3	25	3	0	0
Gadag	0530	650	1010 6	938 4		21 4	18 5	16 8	19 3	76		0 5	.	4 0	0	0	22	0	0	0	2	5	7	7	1	9	0
	0830	„	1012 3	940 4	+0 6	23 3	19 0	16·4	18 8	67	+10	0 9	0	5 0	0	0	24	0	1	2	3	4	9	3	2	7	0
	1130	„	1010 4	940 4		31 2	19 8	12 5	14 8	33	.	0 3		6 6	0	1	24	0	1	2	5	4	5	5	3	6	0
	1430	„	1006 2	937 3	.	34 8	20·7	11 7	14·1	25		0 3		6 5	0	0	29	0	6	4	1	4	4	8	2	2	0
	1730	„	1005 3	936 3		34 2	20 2	11 2	13 4	26		3 3	.	5 0	0	0	24	2	3	2	2	1	9	3	2	7	0
	2030	„	1008 3	938 1	.	29 4	19 1	12 2	14 6	36		1 5	.	7 4	0	2	25	0	1	7	8	0	1	10	0	4	0
	2330	„	1010 3	939 2	.	25 7	19 9	16 5	19 0	59	.	1 0		8 8	0	3	28	0	1	0	4	0	4	22	0	0	0
Interior Mysore South																											
Bellary	0830	449	1011 8	961 8	+0 6	25 2	18·1	12 6	15 0	46	0	0 8	−0 4	4 0	0	0	19	0	3	1	2	6	3	0	4	12	0
	1730	„	1005 7	957·6		35 3	20 0	7 8	10 9	19		3 0	..	7·7	0	0	30	0	3	1	14	3	3	0	6	1	0
Chitradurga	0830	733	1011 7	931 3	+0 3	24 2	18 9	15 5	17 9	61	+11	0 5	−0 8	3·9	0	0	22	0	0	0	2	4	8	5	2	9	1
	1730	„	1004 9	927 3		33 1	22 4	16 1	19 3	38		1 5		2 8	0	0	10	3	0	12	1	0	0	3	0	12	0
Shimoga	0830	571	1012 7	948 9	+4 0	21 7	19 4	18 1	20 8	81	+4	4 7	+2 1	2 6	0	0	31	2	2	5	2	5	10	5	0	0	0
	1730	„	1005 3	944 1		32 8	20 2	11 0	14 0	30		4 3	.	6 4	0	0	29	2	6	5	2	4	5	5	0	2	0
Agumbe	0830	.	.			20 6	19 3	18 5	21 4	88				.	..		.	.				.	..	..	.	..	
Balchonnur	0830		.		..	20 7	18 3	16 4	19 3	80	+1		.													.	
Hassan	0830	960	1522 7	907 7	.	19 6	17 5	16 1	18 5	81	+16	0 3	−1 2	2 6	0	0	29	0	0	5	2	3	9	8	2	2	0
	1730	„	1507 4	904 1	.	30 5	18 1	8·9	11 7	27	..	2 9	.	2 6	0	0	30	0	4	8	7	0	2	9	0	1	0
Bangalore	0230	921	1509 0	910 2		21 0	16 9	14 2	15 3	66	..	0 5	..	4 8	0	0	23	0	0	15	3	1	4	0	0	8	0
	0830	„	1529 7	912 1	+0 7	22 4	17 3	13 6	16 0	60	−4	0 7	−0 7	5 2	0	0	28	0	0	10	5	1	9	2	0	3	1
	1130	„	1540 5	911 8		28 8	18 0	10 1	12 8	33		1 2		7 5	0	1	28	0	0	8	10	2	4	3	1	2	1
	1430	„	1519·7	909 2		31 2	18 6	9 2	12 2	27	.	1 8	..	7 9	0	1	29	2	2	11	6	1	2	4	2	1	0
	1730	„	1511 9	908 7		30 1	18 0	9·0	11 8	28	..	2 0	.	6 3	0	0	25	0	4	13	4	0	1	2	1	6	0
	2030	„	1521 1	910 4	..	25 6	17 1	10 8	13 3	41	..	1·2	..	4 6	0	0	24	1	1	18	1	2	1	0	0	7	0
Bangalore Aerodrome	0530	897	1522 7	912 6		18 8	16 2	14 4	16 5	77	..	0 6	..	4 1	0	0	20	0	3	6	3	3	1	4	0	11	0
	0830	„	1528 2	914 6	.	22 0	17 7	14 7	16 7	65	.	0 5	..	7 2	0	0	25	1	0	7	5	4	4	3	1	6	0
	1130	„	1537 8	914 2	.	28 2	17 7	5 5	9 0	34	..	1 1	..	12 0	0	2	28	0	1	8	7	4	3	6	1	1	0
	1730	„	1508·9	910 8	..	30 2	18 3	9 1	11·5	30		1 7	..	12 0	0	1	28	2	0	17	6	1	1	2	0	2	0
	2330	„	1522 1	913 8	.	22 7	17·0	13 0	15 0	55	.	1 0	..	6 5	0	0	26	0	0	12	10	1	1	2	0	5	0
Mysore	0830	767	1013 0	928 5	+0 9	22 7	18 5	15 8	18 3	67	0	1 4	−0 6	6 3	0	0	31	1	2	4	2	6	12	1	3	0	0
	1730	„	1005·7	924 3	..	31 9	17 7	7 2	9 9	21	.	1 2	..	11 7	0	6	25	5	9	5	8	0	2	0	2	0	0
Kerala																											
Calicut	0530	5	1010 9	1010 3		24 6	22 8	21 8	26 3	83	.	1 2	.	2 8	0	0	23	1	11	11	0	0	0	0	0	8	0
	0830	„	1012 6	1012 0	+0 8	27 4	24 0	22·4	27 1	74	−2	1 2	−0 9	3 6	0	0	22	2	1	16	0	0	0	0	3	9	0
	1130	„	1012 9	10 2 3	..	30 9	25 4	22 9	27 9	63	.	2 2	..	6 3	0	0	31	0	0	0	0	0	8	10	13	0	0
	1730	„	1009 3	1008 7		30 1	25 7	23 8	29 5	69	.	1 4	..	7 9	0	0	31	0	0	0	0	0	0	5	26	0	0
	2330	„	1012 0	1011 4	.	27 9	24 6	23 2	28 3	76		1 8	.	8 8	0	4	23	9	1	1	0	0	0	1	15	4	0
Pilghat	0830	97	1012 9	1001 9		27 7	22 8	19 9	23 8	62		1 2	..	9 9	0	8	23	0	0	18	0	0	0	13	0	0	0
	1730	„	1007 4	996 7	..	34 0	22 4	14 9	17 6	35		1 3		10 9	0	2	29	0	0	17	0	0	0	14	0	0	0
Fort Cochin	0830	3	1012 8	1012 5	+0·9	27·3	24 2	22·7	27 6	76	+1	5 1	+3 1	7 3	0	0	31	8	11	8	0	0	0	0	4	0	0
	1730	„	1009 0	1008 7	.	9 1	25 3	23·5	29 1	70		5 2	.	11 5	0	0	31	0	0	0	1	0	1	14	15	0	0
Cochin (Naval Air Station)	0230	3	1010 6	1010 3	..	25 6	23 6	22 6	27·4	84		2 6	.	1 5	0	0	8	2	2	2	0	0	0	1	1	23	0
	0530	„	1010 6	1010 3	..	24 8	23 3	22 5	27 3	87	.	1 8	..	1 3	0	0	7	1	4	2	0	0	0	0	0	24	0

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MARCH, 1965 (PHALGUNA 10, 1886—CHAITRA 10, 1887 SAKA)

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km per hour	Wind speed (Km p h): 62 or more	Wind speed (Km p h): 20 to 61	Wind speed (Km p h): 1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala—*Contd*																											
Kochin (Naval Air Station) (contd)	0830	3	1012 7	1012 4		28 0	24 3	22 5	27 4	72	.	2 6		2 5	0	0	10	1	2	7	0	0	0	0	0	21	0
	1130	,,	1012 7	1012 4	..	31 0	24 9	22 0	26 6	59	.	3 5		11 9	0	1	25	0	0	0	0	0	2	18	6	5	0
	1730	,,	1008 7	1008 4	.	29 8	24 8	22 4	27 1	65	..	3 1	..	16 8	0	3	28	2	0	0	1	0	5	18	5	0	0
	2330	,,	1012 2	1011 9		26 6	23 7	22 2	26 9	77		3 2	.	2 8	0	0	11	3	0	1		0	0	3	4	20	0
Alleppey	0830	4	1012 5	1012 1	+0 7	28 1	24 9	23 4	28 9	76	1	2 9	—1 4	5 0	0	0	26	1	10	11	4	0	0	0	0	5	0
	1730	,,	1009 2	1008 8	.	30 4	25 8	23 8	29 5	68		2 8		24 6	0	30	1	0	1	0	0	0	6	8	16	0	0
Punalur . .	0830	34	1012 7	1008 8	..	24 4	22 5	21 4	23 6	84		3 3		0 3	0	0	3	0	0	0	1	1	1	0	0	28	0
	1730	,,	1008 4	1004 6	..	31 2	24 2	20 6	24 7	56		6 0		5 7	0	0	31	0	0	1	3	11	10	4	2	0	0
Trivandrum	0230	64	1010 3	1003 0		25 3	23 1	22 0	26 4	82		1 8		2 6	0	0	15	5	5	0	1	0	0	0	4	16	0
	0530	,,	1010 6	1003 2	.	24 4	22 5	21 5	25 6	84	.	1 7		5 3	0	0	27	4	14	6	0	0	0	0	3	4	0
	0830	,,	1012 7	1005 4	+1 0	26 4	23 2	21 5	25 8	75	—2	1 5	—0 7	4 9	0	0	30	5	10	2	2	1	2	1	7	1	0
	1130	,,	1012 1	1004 9	.	31 1	23 9	20 5	24 1	54		3 5		8 6	0	2	26	0	1	1	3	1	6	7	8	3	1
	1430	,,	1009 2	1002 0		31 2	24 3	20 7	24 7	54		2 6		12 6	0	4	27	0	0	1	0	3	8	13	6	0	0
	1730	,,	1009 1	1001 9		29 4	24 3	21 9	26 3	64	.	3 7		9 4	0	2	28	0	0	0	1	4	8	8	8	1	1
	2030	,,	1011 4	1004 1		27 2	23 7	22 0	26 4	74		2 9		7 2	0	0	28	4	3	1	1	1	5	2	11	3	0
	2330	,,	1012 1	1004 8		26 3	23 5	22 1	26 6	78		2 4		6 1	0	0	28	13	2	0	2	2	2	0	7	3	0
Trivandrum(Aerodrome)	0830	8	1012 9	1012 0		27 9	23 7	21 5	25 6	69		2 4		12 0	0	8	19	12		7	1	0	1	1	2	4	0
Arabian Sea Islands																											
Amini	0530	4	1010 9	1010 4		26 1	23 5	22 2	26 7	79		2 8		6 5	0	1	22	9	2	0	0	0	0	2	10	8	0
	0830	,,	1013 2	1012 7	.	27 7	24 1	22 4	27 1	73	0	2 6	+0 1	5 7	0	1	27	8	6	1	0	0	0	0	12	3	1
	1130	,,	1013 5	1013 1	.	31 0	25 0	22 2	26 7	59		2 1		8 2	0	0	31	9	3	0	0	0	0	1	17	0	1
	1730	,,	1010 1	1009 7	.	30 3	25 0	22 5	27 3	63		2 0		10 1	0	3	28	6	0	0	0	0	0	1	23	0	1
	2330	,,	1012 3	1011 8		27 1	24 1	22 6	27 6	76		1 4		11 7	0	3	25	5	0	0	0	0	0	4	19	3	0
Minicoy	0530	2	1010 9	1010 7		25 3	23 2	22 1	26 6	83		2 3		1 3	0	0	7	0	1	0	0	0	0	1	5	24	0
	0830	,,	1013 0	1012 8	+1 0	27 7	24 2	22 5	27 3	74	+2	2 3	—0 5	4 8	0	0	22	10	1	0	0	0	0	2	9	9	0
	1130	,,	1013 1	1012 9		29 8	24 9	22 7	27 6	66		2 5		7 0	0	0	31	16	3	2	0	0	0	1	8	0	1
	1430	,,	1010 7	1010 5		29 2	24 9	22 6	27 9	6		2 5		7 2	0	0	30	13	5	0	0	0	0	0	12	1	0
	1730	,,	1010 0	1009 8		29 1	24 5	22 4	27 2	67		2 0		7 2	0	0	28	11	2	2	0	0	0	0	13	3	0
	2030	,,	1011 6	1011 4		26 9	23 8	22 4	26 9	76		1 3		4 5	0	0	17	9	1	0	0	0	0	1	6	14	0
	2330	,,	1012 5	1012 3		26 1	23 5	22 3		81		1 7		4 6	0	0	16	9	0	0	0	0	1	0	6	15	0
Hill Stations (excluding Kashmir)																											
Dalhousie . .	0830	1959	1440 5	799 0	—0 7	10 0	4 9	—2 1	5 1	46	−14	1 6	—1 1	2 0	0	0	16	1	2	0	2	0	0	0	2	15	9
	1730	,,	1434 3	798 8		11 4	7 9	4 5	8 4	58	.	2 2		1·6	0	0	13	0	2	0	0	0	2	1	1	18	7
Dharmsala .	0830	1211	1557 2	885 6	+1 5	16 2	9 8	2 7	7 4	41	−8	4 0	+0 6	1 1	0	0	22	4	15	3	0	0	0	0	9	0	0
	1730	,	1553 2	885 0		17 7	11 0	4 2	8 2	43		4 7		1 5	0	0	30	1	4	2	0	1	17	4	1	1	0
Simla .	0830	2202	1490 8	782 0	+0 8	9 7	3 2	−8 4	3 0	33	−3	3 0	−0 2	1 1	0	0	14	1	3	0	4	3	2	0	1	17	0
	1730	,,	1450 1	777 1		9 1	4 5	−2 1	5 2	46		3 1	.	1 4	0	0	22	1	5	0	3	1	11	0	1	9	0
Lokpal . . .	0830					−10 3	−12 1	−17 2	1 3	53		2 4															
Badrinath	0830					..	Closed	during	winter	months																	
Joshimath .	0830				..	8 0	3·7	−2 6	4 9	50		3 0	.	8 6	0	0	30	0	3	13	8	0	1	0	0	1	5
	1730				.	12 7	7 3	1 4	6 8	50	.	5 0	.	4 0	0	0	29	2	3	6	5	3	2	2	5	2	1
Mussoorie	0830	2042			.	10 9	5 7	−0 7	5 8	51	+3	3 0	0	4 3	0	1	18	8	2	0	1	2	1	0	5	12	0
	1730	,,				11 3	7 6	3 8	8 0	62		3 8	.	6 8	0	1	30	8	4	0	6	7	1	0	5	0	0
Mukteswar (Kumaun)	0830	2311	3118 3	772 5	−0 1	8 4	3 7	−3 7	4 5	48	+4	2·7	+0·1	12 8	0	6	23	0	8	7	1	0	2	6	5	2	0
	1730	,,	3108 7	771 2		10 0	5 8	0 9	6 5	57	.	3 0	.	14·8	0	9	21	1	4	3	0	1	5	10	6	1	0
Naini Tal	0830	1953	1496 9	805 2	0	9 9	5 6	0 4	6 3	55	+1$_0$	2 7	+0·1	5 3	0	0	23	9	1	9	0	1	0	3	0	8	0
	1730	,,	1474 5	803 1		11 1	7 5	3 5	7·9	62		2 6	.	7 6	0	0	31	4	1	2	2	5	1	16	0	0	0
Kalimpong	0830	1209				14·3	10 9	7 9	10·7	67	+5	0 2	—1·6	7 1	0	0	31	0	0	0	3	0	1	0	27	0	0
	1730	,,				16 5	11 8	7 6	10 4	57	.	0 1	.	8 2	0	0	31	0	0	0	26	0	0	0	5	0	0
Darjeeling	0830	2128	1532 7	792 3	+4 0	11 1	7 6	4 1	8 2	64	−3	3 5	+0·5	1 5	0	0	12	5	2	0	0	0	5	0	0	19	0
	1730	,,	1504 3	789 6		10 9	7 6	4 3	8 3	65	.	4 7	..	5 8	0	2	17	1	0	0	0	0	10	4	0	12	4
Kohima	0830	1406	1566 0	866 3		15 9	14 6	13 7	15 7	90		3		3 8	0	0	31	1	2	0	4	0	0	0	22	0	2
	1730	,,	1541 9	863 8		17 9	16 8	16 1	18 3	92		4 3		4 2	0	0	31	2	1	0	1	0	0	0	26	0	1
Shillong	0830	1500	1520 2	852 3	+1 7	17 1	12 9	9 5	11 9	64	+19	2 0	+0 1	3 8	0	0	14	0	0	0	1	2	6	2	3	17	0
	1730	,,	1505 3	850 7		16 5	13 9	12 0	14 0	76	.	(a) 4 6	.	(a) 1 3	0	0	3	0	0	0	0	0	3	0	0	27	0

(a) Mean of 30 days

Sub-Division and Station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g p m of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Wind speed (Km p h): Mean wind speed in Km per hour	Wind speed (Km p h): 62 or more	Wind speed (Km p h): 20 to 61	Wind speed (Km p h): 1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill stations (excluding Kashmir)—*contd.*																											
Cherrapunji (R)	0830	1313																									
(R)	1730	,,																									
Abu	0830	1195	1515 4	882 8	+0 5	17 6	10 7	3 4	7 8	38	+3	0 5	−1 0	1 6	0	0	10	1	1	0	0	4	4	0	0	21	0
	1730	,,	1501 8	880 6		23 0	13 4	4 3	8 3	31		0 2		9 0	0	3	26	4	2	0	0	9	10	0	4	2	0
Ajmal	0830	,,				20 2	15 0	11 2	13 3	57		5 7 (c)	.	2 4 (c)	0	0	28	3	1	12	0	3	4	4	1	0	0
	1730	,,				21 5	15 9	11 8	13 8	54	.	2 0 (d)		2 7 (d)	0	0	27	3	0	3	0	3	1	16	1	0	0
Pachmarhi	0830	1075	1528 5	896 1	+0 5	20 7	12 0	2 6	7 7	31	−6	2 8	+1 2	3 2	0	0	26	1	3	7	1	5	3	3	3	5	0
	1730	,,	1508 0	893 1		26 0	13 5	0 9	6 4	19		3 2		3 2	0	0	28	3	5	0	0	2	0	4	14	3	0
Mahabaleshwar	0830	1382	1523 0	864 3	+0 3	18 7	10 8	1 6	7 2	34	−3	0 3	−0 4	10 9	0	0	31	2	21	0	2	0	0	0	6	0	0
	1730	,,	1504 9	862 9		25 3	15 7	7 9	10 8	35		0 0	.	9 8	0	0	31	0	1	0	1	0	2	1	26	0	0
Mercara	0830	1152	1526 9	887 9	+0 9	20 5	16 2	12 8	15 3	64	−5	0 6	−2 0	6 8	0	0	31	2	12	15	0	1	0	0	1	0	0
	1730	,,	1506 0	885 0		26 2	19 2	14 5	17 1	51		2 5		7 0	0	0	31	1	5	3	0	0	2	8	10	0	2
Ootacamund (R)	0830	2249																									
(R)	1730	,,																									
Coonoor (R)	0830	,,																									
Kodaikanal	0830	2343	3171 9	772 9	+0 8	15 0	9 1	2 0	7 7	48	+2	1 5	−0 2	8 4	0	0	29	1	14	6	7	1	0	0	0	2	0
	1130	,,	3184 4	773 3	.	17 8	11 3	5 1	9 2	46		2 7		11 0	0	1	30	0	13	5	11	2	0	0	0	0	0
	1730	,,	3155 6	771 5		14 7	11 5	8 9	11 5	70		4 2		6 3	0	0	27	3	5	0	10	9	0	0	0	4	0
Nepal																											
Katmandu	0830	1324	1512 2	869 5		11 1	8 7	5 7	9 3	70	.	2 0		0 7	0	0	4	0	0	0	0	1	1	2	0	27	0
	1130	,,	1506 7	868 3		20 8	12 1	3 9	7 9	33		2 3		3 1	0	0	22	1	1	2	1	2	8	4	3	9	0
	1730	,,	1482 8	866 0		18 4	11 5	4 5	8 6	42		3 5		3 5	0	0	19	2	1	2	0	2	7	5	0	12	0
Sikkim																											
Lachen	0830					6 9	3 5	−0 9	5 7	57															..		
Hydrometeorological observatories																											
Damodar catchment																											
Tilaiya	0830	,,				23 7	15 0	7 5	10 4	35		2 5		6 6	0	0	26	0	2	2	0	2	6	9	5	5	0
	1730	,,				27 6	15 4	3 1	7 6	22		2 2		6 3	0	0	29	2	0	3	1	0	0	8	15	2	0
Hazaribag	0830	615	1012 0	943 6		22 8	15 3	9 5	11 9	44	..	2 2		5 3	0	0	25	1	0	3	4	0	4	8	5	6	0
	1730	,,	1008·0	940 4		25 3	16 1	9 1	11 5	38	..	2 1	.	5 6	0	0	27	3	0	1	0	0	1	12	10	4	0
Konar	0830	..				23 7	15 8	9 1	11 5	40		2 1		3 5	0	0	27	3	2	2	0	0	1	11	8	4	0
	1730					26 5	17 6	10 8	12 9	38		2 6	.	6 3	0	0	29	5	0	4	1	0	2	6	11	2	0
Bokaro	0830	242	1011 9	984 3		21 9	15 6	10·4	12 3	48		1 4		4 5	0	0	30	3	1	0	1	0	9	12	4	1	0
	1730	,,	1007 7	980 5		29 4	18 1	9 1	11 2	28		1 5		6 8	0	0	30	4	2	1	2	3	0	3	15	1	0
Malthon	0830					25 7	17 2	10 8	12 9	40		2 7	..	3 6	0	0	31	0	2	0	2	0	14	4	9	0	0
	1730					30 3	18 8	10 0	12 3	30	..	2 3		3 8	0	0	31	0	1	0	2	1	10	2	15	0	0
Ramgarh (R)	0830																										
(R)	1730																										
Panchet Hills	0830				.	23 1	16 8	12 0	14 0	50		2 0	.	5 3	0	0	24	0	4	0	3	0	13	0	4	7	0
	1730				..	28 9	18 3	10 1	12 3	33	.	1·3	.	2 2	0	0	12	0	3	0	2	0	3	0	4	19	0
Durgapur	0830					24 7	19 6	16 4	18 6	60	.	2 9	.	4 6	0	0	27	2	5	0	1	0	3	3	13	4	0
	1730					28 7	20 9	16 2	18 4	47	..	2 8		4 3	0	0	28	2	3	2	1	4	5	3	8	3	0
Mahanadi Catchment																											
Ginabahar	0830					22 3	15 2	9 5	12 1	46			..	..													
Hirakud	0830	159	1012 9	994 8		25 3	18·8	14·4	16 4	52		1 5	.	2 5	0	0	22	7	1	6	4	2	1	0	1	9	0
	1130	,,	1011 9	994 1	.	30 7	20 2	13 1	15 1	35	.	1 5	.	3 5	0	0	28	3	2	2	1	1	5	4	10	3	0
	1730	,,	1007 9	990 2	.	31 2	20 3	12 9	14 9	34		2·3		2 3	0	0	20	0	1	2	1	3	2	4	7	11	0
Bhimkund	0830				.	22 6	17 5	13 9	15 9	58	..	1 8	..	1 0	0	0	11	0	0	1	1	1	2	0	6	20	0
	1730					29 7	17 5	7 1	10 1	27	..	2 5	..	2 8	0	1	16	1	2	1	3	3	2	2	3	14	0
Sonepur	0830					25 5	21 7	19 6	22 8	71	..	..	.	4 7	0	0	20	3	0	13	1	0	0	3	0	11	0
Khirawan	0830				..	21 4	18 0	15 6	17 8	71	..	0	..	3 2	0	0	28	1	9	1	10	0	4	1	2	3	0
	1730				..	29 5	19 8	12 0	15 1	39	.	0	.	3 1	0	0	31	2	5	0	5	0	9	0	10	0	0
Narmada Catchment																											
Bagra Tawa	0830				.	22 6	13 9	4 8	8 8	32		1 6		8 5	0	0	27	0	13	1	0	1	10	2	0	4	0
	1730					32 0	17 6	3 7	8.5	18	.	2.0	..	7 4	0	0	26	2	7	1	3	0	5	6	2	5	0
Punasa*	0830																										
	1730																										
Thikri	0830					25 8	16 0	6 9	10 2	31	.	0 5															
		,,																									
Sabarmati Catchment																											
Darol	0830	278			.	20 0	12 7	4 7	8.8	37																	
	1730				..	32 4		8 7	11 5	24			.														

(d) Mean of 27 days. (R) Registered not received. (c) Mean of 28 days *Data not available

Sub Division and station	Hour of observation I S T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry Bulb	Mean temperature in °C: Wet Bulb	Mean temperature in °C: Dew Point	Vapour pressure in mbs	Relative Humidity%	Departure from normal	Cloud amount (oktas): Mean Amount	Cloud amount (oktas): Departure from normal	Mean wind speed in km per hour	Wind speed (km p.h.): 62 or more	Wind speed (km p.h.): 20 to 61	Wind speed (km p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*contd*																											
Gandak Catchment—																											
Jomosom	0830		.			6 5	3 1	−1 0	5 8	62						..					.			..	..	..	
	1730	..				6 5	4 0	1 4	6 8	72									.					.	.		.
Khudi Bazar	0830	.			.	17 8 (j)	12 3 (k)	7 4 (k)	10 5 (k)	52 (k)													..	.	..	..	
	1730		.			21 6	13 7	6 8	10 1	41								.	.		.	.		.	..	..	..
Timure	0830					9 5	5 2	−0 5	6 1	50			..									.			.		.
	1730	..	.	.		14 4	8 6	2 4	7 5	48															..		
Pokhara	0830		.			17·8	12·4	7 6	10·7	52		2 0		2 3	0	0	19	9	0	1	2	0	1	1	5	12	0
	1130		..			22 6	13 9	6 2	9 6	36		2 5		6 7	0	0	29	1	0	2	16	8	0	0	0	2	2
	1730		.		.	21·9	13 4	5 6	9 3	36		4 4		7 5	2	0	29	3	3	2	9	4	1	0	9	0	0
Gorkha .	0830	.				17 3	11·0	4 5	8 6	44		1 3			.	.		.	..	.		..	.	.	..		.
	††1130	..	..			.			.			.				.			.			..	..	..	..		
	1730	.	..			19·9	11·9	3 7	8 2	37		3 2					.			.	..	..			.	.	.
Nuwakot .	0830	.	..			16·9	11 0	5 1	9 0	48				.		.			.				.	.	..	.	
	1730	..	..			21 8	12·3	2 1	7 5	31		.							.	.	.	..		.	..	.	.
Ghaghara Catchment (Trans Himalayan Region)																											
Daulekh	0830	.	..			14 9	13 7	12 8	14 9	87										.	..	.		.	.		.
	1730		.			17·0	15·3	14 2	16 2	84			..				.							.	..		.
Dadeldhura	0830	.	..	.		10 6	6·3	1 3	6 8	56		2 2		6 6	0	1	27	0	1	6	14	4	1	1	1	3	0
	1130		..	.		13 2	7·9	2 4	7 4	51		3 5		7 6	0	1	29	6	2	4	6	1	1	1	9	1	0
	1730		..			12 4	7·7	2·7	7 7	55		3 5		6 3	0	1	28	2	0	1	5	3	5	5	8	2	0
Sallyana .	0830		..			15 5	10 2	4 5	8 6	50									.	.			.		..		.
	1730		..			16 8	10 6	4 2	8 5	44												.			..		.
Butwal	0830	.	..			22 6	15 8	10 1	12 5	46									.				.	.	..	.	..
	1730		..			27·6	17 6	9 4	12 0	33											..	..		.	.	..		
Baghmati Catchment																											
Katmandu† .	0830	1324																									
	1130	,,																									
	1730	,,																									
Kosi Catchment																											
Chautara .	0830		..			14 2	9 0	3 7	8 2	51					.				..			.		..	.		..
	1730		.	..		18 3	10 9	4 0	8 4	41					.					.			.		.		
Walungchung Gola	0830		..			3 3	2 5	1 7	6 9	89			.					.				.	.	.	.	.	.
	1730		.			2 6	2 0	1 5	6 9	94	.					.			..			.	.		..		.
Taplethok .	0830			.	.	14 6	9 6	4 2	8 5	51									..	.		.			.	..	.
	1730		..		..	17 1	10 4	3 1	7 9	42		.										.		..			.
Bhojpur .	0830		..		..	14 9	9 5	4 3	8 6	52						.						.		.	.		.
	1730	.	.	..	.	14 1	9 3	4 5	8 7	55					.								.	..			.
Taplejung	0830		.		.	12 5	7 9	3 5	8 0	56		2 9		0 9	0	0	9	2	1	0	0	1	0	1	4	22	0
	1130			..	.	16 0	9 8	3 7	8 2	46	.	3 3	.	7 8	0	1	29	2	0	2	3	10	5	6	2	1	0
	1730		.	.	.	13 8	8 9	4 0	8 3	55		4 5	.	15 0	0	9	18	3	2	0	10	10	1	1	0	4	0
Okhaldhunga .	0830				.	13 3	8 1	2 5	7 6	51	.	1 2	.	1 4	0	0	10	0	0	0	4	3	0	1	2	21	0
	1130			.		16 6	9 5	1 8	7 4	41		1 9		5 2	0	1	25	0	0	0	1	8	5	10	2	5	0
	1730			.		13 6	8 3	2 7	7 7	51		2 6		9 9	0	4	23	0	0	0	0	3	5	18	1	4	0
Chainpur**	0830		.	.														.			.	..	.	..			..
	1730								..			.	.	.	.				.				.		..		.	
Angbung*	0830											..	.				.	.	.						..	.	.	
	1730				.		.									..			.	..			..	.	..	.	.	
Barahakshetra	0830	146	1013 8	997 0		21 3	14 4	7 9	11 1	43		1 7	.	3 5	0	0	25	0	0	7	5	1	7	2	2	6	1
	1130	,,	1012 0	995 5		27 6	17 2	8 4	11 6	32		2 2		6 3	0	0	30	0	0	0	1	0	26	3	0	1	0
	1730	,,	1008 6	992 1		25 4	16 5	8 6	11 7	37		1 9	.	2 9	0	0	21	0	2	6	4	0	4	3	2	10	0
Tista Catchment Gangtok .	0830	1812	1509·5	820·2	.	11·1	8 0	4 8	8 7	66	.	4 1	.	1 7	0	0	9	5	4	0	0	0	0	0	0	22	0
	1130	,,	1499 4	819 7		16 5	10 5	5 1	9 0	49		3 9	.	4 0	0	0	26	2	0	0	0	12	10	1	1	5	0
	1730	,,	1479 5	817 5	..	12 9	9 3	5 9	9 4	64	.	6 4		3 6	0	2	9	1	2	0	0	8	0	0	0	20	0
Gezing .	0830	..		..	.	14 3	10 4	7 2	10 4	64	.		.	.	..	.	..	..		..	..		..	..		.	.
	1730	.	..	..	.	14 5	10 7	7 5	10 5	64	.	.	.	.	.	.	..	..	..	..	.	..	..	..				.

*Data not available **Data not reliable. ††Observations not recorded †Data included under Nepal. (k) Mean of 20 days. (l) Mean of 19 days.

MONTHLY MEANS OF UPPER WINDS

March, 1965 (Phalguna 10, 1886 Saka—Chaitra 10, 1887 Saka)

During the month, observations of velocity and direction of upper winds were made at 53 stations in India. Out of these, at 38 stations all the observations were taken by means of pilot balloons and at 14 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. In the case of Bangalore, the observations were taken by following radiosonde balloon by means of an optical theodolite. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk(*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data upto 9.0 km. a.m.s.l. are given under Table IV and data above 9.0 km. a.m.s.l. under Table V.

In Tables IV and V :

n—represents the number of observations;

V—represents the mean wind speed in metres per second irrespective of direction;

v—represents the resultant mean velocity in metres per second,

D—represents the direction of the resultant mean wind in degrees East of North.

Means and resultant winds are given in this publication for the following heights :

Surface, 0.15 km. a.g., 0.3, 0.6, 0.9, 1.5, 2.1, 3.0, 3 6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1, 16 2, 18.0, 21.0, 24.0, 27.0, 30.0, 33 0, and 36.0 km. a.m.s.l. Of these, the levels 1 5, 3.0, 5 4, 7.2, 9.0, 12.0, 14 1, 16.2, 18.0, 21.0, 24.0, 27.0, and 30.0 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150, 100, 70, 50, 30, 20 and 10 mb. respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

S No	Station	Lat. N.	Long. E	Height of Anemometer head a m s l in metres	Data available from **	Approximate times of flight (I S T.)			
1	Agartala	23°53′	91°15′	17	28th November, 1951	0530	1130	1730	2330
2	Ahmadabad	23°04′	72°38′	61	19th May, 1928	0530*	1130	1730*	2330
3	Allahabad/Bamhrauli	25°27′	81°44′	103	28th February, 1930	0530*	1130	1730*	2330
4.	Ambala	30°23′	76°46′	279	18 March, 1928	0530	1130	1730	2330
5	Anantapur	14°41′	77°37′	365	12th February, 1946	0530		1730	2330
6	Asansol	23°41′	86°59′	135	29th May, 1942	0530	1130	1730	2330
7	Aurangabad/Chikalthan	19°51′	75°24′	583	7th October, 1951	0530		1730	2330
8	Bahraich	27°34′	81°36′	134	1st October, 1961	0530	1130	1730	
9	Bangalore	12°58′	77°35′	936	19th May, 1915	0530@	1130	1730@	2330
10	Bareilly	28°22′	79°24′	181	12th January, 1943	0530		1730	
11	Begampet	17°27′	78°28′	543	1st September, 1929	0530		1730	2330
12	Bhagalpur	25°14′	86°57′	61	19th May, 1950	0530		1730	
13	Bhopal/Bairagarh	23°17′	77°21′	532	26th February, 1943	0530		1730	2330
14	Bhubaneshwar	20°15′	85°50	54	17th December, 1955.	0530	1130	1730	2330
15.	Bhuj/Rudramata	23°15′	69°48′	90	14th September, 1937	0530		1730	2330
16.	Bikaner	28°00′	73°18′	229	18th October, 1946	0530		1730	2330
17	Bombay/Santa Cruz	19°07′	72°51′	27	14th May, 1933	0530*	1130	1730*	2330
18.	Calcutta/Dum Dum	22°39′	88°27′	13	14th May, 1921	0530*	1130	1730*	2330
19	Cochin/Willingdon†	09°56′	76°14′	13	16th March, 1942	0530		1730	2330
20	Dehra Dun	30°19′	78°02′	692	1st October, 1958	0530		1730	
21.	Dibrugarh/Mohanbari	27°29′	95°01′	112	1st June, 1948	0530	1130	1730	2330
22.	Gadag	15°25′	75°38′	650	3rd May, 1943	0530		1730	2330
23.	Gangtok	27°20′	88°37′	1764	31st May, 1963	0530		1730	
24.	Gauhati	26°05′	91°43′	55	11th March, 1955	0530*	1130	1730*	2330
25	Gaya	24°45′	84°57′	119	19th March, 1937	0530	1130	1730	2330
26.	Gopalpur	19°16′	84°53′	24	15th February, 1946	0530		1730	2330
27.	Gorakhpur	26°45′	83°25′	83	5th January, 1943	0530		1730	
28.	Gwalior	26°14′	78°15′	208	7th May, 1938	0530	1130	1730	2330
29	Imphal/Tulihal	24°46′	93°54′	782	29th March, 1943	0530	1130	1730	2330
30.	Jabalpur	23°10′	79°57′	402	30th July, 1928	0530		1730	2330
31.	Jagdalpur	19°05′	82°02′	562	25th March, 1948	0530		1730	2330
32.	Jaipur/Sanganer	26°49′	75°48′	403	6th June, 1953	0530		1730	2330
33.	Jamshedpur	22°49′	86°11′	144	23rd July, 1942	0530	1130	1730	
34.	Jharsuguda	21°55′	84°05′	240	1st May, 1944	0530		1730	2330
35.	Jodhpur	26°18′	73°01′	229	15th October, 1934	0530*	1130	1730*	2330
36.	Lucknow/Amausi	26°45′	80°53′	133	20th November, 1950	0530		1730	2330
37.	Madras/Minambakkam	13°00′	80°11′	29	8th April, 1926	0530*	1130	1730*	2330
38.	Mangalore/Bajpe	12°55′	74°53′	104	4th June, 1928	0530		1730	2330
39.	Minicoy	08°18′	73°00′	15	14th April, 1941	0530	1130	1730*	2330
40.	Nagpur/Sonegaon	21°06′	79°03′	316	23rd April, 1943	0530*	1130	1730*	2330
41.	New Delhi/Safdarjung	28°35′	77°12′	227	16th November, 1929	0530*	1130	1730*	2330
42	Poona	18°32′	73°51′	593	5th January, 1925	0530		1730	2330
43.	Port Blair	11°40′	92°43′	95	13th March, 1926	0530*	1130	1730*	2330
44.	Raipur	21°14′	81°39′	308	15th July, 1944.	0530		1730	2330
45.	Raxaul	26°59′	84°51′	83	28th October, 1957	0530		1730	
46.	Srinagar	34°05′	74°48′	1595	1st August, 1962	0530*		1730*	
47.	Tiruchchirappalli	10°46′	78°43′	96	22nd June, 1936	0530		1730	2330
48.	Trivandrum	08°29′	76°57′	73	8th December, 1928	0530*	1130	1730*	2330
49.	Udaipur	24°35′	73°42′	587	24th June, 1947	0530		1730	2330
50.	Vengurla	15°52′	73°38′	8	20th November, 1941	0530		1730	2330
51.	Veraval	20°54′	70°22′	17	13th October, 1941	0530		1730	2330
52.	Vijayawada/Gannavaram	16°32′	80°48′	32	1st April, 1957	0530		1730	2330
53.	Vishakhapatnam	17°43′	83°14′	10	24th September, 1928.	0530*	1130	1730*	2330

*Radio wind ascents.

@Radiosonde ascents followed by optical theodolite.

†Naval Meteorological Office.

**Refers to data from which data are available.

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km above mean sea level

March, 1965 (Phalguna 10, 1886 Saka—Chaitra 10, 1887 Saka)

Station	AGARTALA																AHMADABAD							
Time in I.S.T.	0530				1130				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·3	1·0	162	31	1 6	1·2	232	31	2·0	0·8	260	31	1 5	1 0	170	31	1 3	0 9	301	31	3 5	1 0	014
0·15 a.g. .	28	3 6	1 8	178	31	3 0	2 3	237	31	4·5	2 3	250	31	6 1	3 0	194	31	7 9	5 2	344	31	4·7	0 9	007
0·3 a.m.s.l. .	28	4 3	1·4	233	31	3·2	2 2	239	31	4·5	2 5	245	31	6·2	3 6	219	31	8 3	5 4	343	31	4·7	1·2	010
0·6 ,, .	28	5 4	2 5	272	31	3·4	2 3	242	31	4 6	3·1	243	31	6·0	3·9	239	31	7·8	4 9	341	31	5 2	1·2	017
0·9 ,, .	28	5·5	3·3	272	31	4 0	2·9	254	31	5 0	4 0	246	31	5 5	4 1	249	31	7·0	4 4	327	31	5·6	1·3	313
1·5 ,, .	27	5·9	4·1	275	30	6·6	4·8	260	31	6 0	5·4	248	31	6 2	5·4	268	31	7 0	3·8	288	31	6·9	3·6	269
2·1 ,, .	26	8 0	6 6	283	23	7 3	6 3	286	31	7·3	6 6	255	28	7·7	6 7	289	31	8 4	6·4	261	31	8·6	6·3	262
3·0 ,, .	24	11 8	10·7	288	14	10 4	8·2	281	31	10·5	9·5	279	22	9 8	8 8	280	31	10·3	7 4	260	29	10·7	8·5	255
3·6 ,, .	19	14·3	13·0	289					28	12 8	12 1	285					31	11 6	9·2	266	26	10·9	9·0	260
4·5 ,, .	15	16·3	14·3	287					22	15 6	10 5	288					31	12·8	11·6	281	25	11·6	10·6	267
5·4 ,, .	7	11·7	11·2	270					17	18·0	17·2	275					31	16.6	14 8	283	24	14·1	13·1	271
6·0 ,, .	4	12·2	11 5	271					15	19·0	17·7	272					31	20 8	19.1	285	24	16·3	15·4	273
7·2 ,, .	2	15 5	15 1	295					2	16·5	16 3	263					30	28·0	25·5	284	17	21·4	19·6	269
9·0 ,, .																	24	36 2	32 9	283	10	31 8	29·8	268

Station	AHMADABAD								ALLAHABAD/BAMHRAULI											
Time in I.S.T.	1730*				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	2·7	2·1	291	31	2·0	1 1	251	31	0·5	0 3	013	31	1·3	0·7	270	31	2 4	1·5	310	31	0·7	0·1	356
0·15 a.g. .	31	5·0	3·7	290	31	7·9	3·9	345	31	5·4	2 0	324	31	3·4	1·3	269	31	5 8	4·4	320	31	6·6	3·7	357
0·3 a.m.s.l. .	31	5·2	3·8	290	31	8 3	4·0	290	31	5·4	2·0	324	31	3·5	1·5	267	31	5·8	4·4	320	31	6 8	3·8	350
0·6 ,, .	31	5·3	3·9	290	31	7·7	4·5	293	31	6·2	3·5	350	31	4·3	2·4	265	31	6 5	4·4	313	31	6·5	3·5	344
0·9 ,, .	31	5 2	3·6	296	31	6·7	4·3	299	31	6·2	3 8	324	31	5·3	3·0	274	31	6·0	4·1	306	31	5·9	3·5	325
1·5 ,, .	31	5 9	4·1	287	31	6·7	4·2	285	31	8 5	5·9	294	31	6·9	4·5	288	31	5·9	4·2	281	28	7·0	5·3	273
2·1 ,, .	31	7·0	4·9	277	31	7 5	4·2	273	31	10 3	8·2	279	31	9·0	6·4	285	30	8·7	7·4	275	25	9·8	9·4	275
3·0 ,, .	31	8·4	6·5	277	31	8 3	6·1	257	31	13·1	11·6	273	30	11·6	9·4	286	31	12·7	10·9	268	18	10·4	9·8	263
3·6 ,, .	31	10·5	8·9	280	9	9·0	5·9	275	31	14·5	13·3	272	28	13·1	11·7	282	31	15·4	13·7	270	6	9·2	8·6	273
4·5 ,, .	31	12·2	11·3	287	1	10 0	10·0	300	31	17·9	16·3	273	26	14·6	13·6	279	31	17·7	16·4	272	2	9·5	9·5	278
5·4 ,, .	31	15·2	14·5	286					31	20·4	19·0	271	25	18·4	16·8	280	31	20·0	18·8	272				
6·0 ,, .	31	18·7	17·6	289					31	22·5	21·3	269	25	20·4	19·1	279	31	22 2	20·6	272				
7·2 ,, .	30	25·8	23·9	287					31	27·0	25·7	269	21	27·1	25·3	275	31	28·5	26·7	272				
9·0 ,, .	26	35·1	32·7	285					26	39·9	37·4	263	9	33·9	32·0	271	26	39·2	36 8	266				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 0 Km above mean sea level

March, 1965 (Phalguna 10, 1886 Saka—Chaitra 10, 1887 Saka)

Station	AMBALA																ANANTAPUR							
Time in I S.T.	0530				1130				1730				2330				0530				1730			
Ht in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	1·6	0 2	339	31	2·7	0 2	046	31	2·9	1·8	303	31	2·0	1 0	346	31	1 0	0 4	220	31	2·3	1·9	084
0·15 a.g.	31	6·3	1 7	005	31	5 2	0 4	036	29	6 0	4 4	295	31	8·1	4 7	350	31	4·7	2 4	202	31	4 8	3·7	080
0·3 a.m.s.l. .	31	3·7	1·0	346	31	3 4	0·5	001	29	3·7	2·9	295	31	4 0	2 0	349								
0·6 ,, .	31	6·9	1·7	353	31	6·5	1·3	029	29	6·4	4·5	296	31	8 1	4·0	339	31	5 1	2·7	195	31	4·6	3·3	080
0·9 ,, .	31	7 5	2 1	344	31	7·2	1·5	321	29	6 4	4·3	305	31	8 1	4 3	336	31	6 7	3·6	163	31	4·4	3 0	086
1·5 ,, .	29	7 1	3 3	328	30	7 7	2·6	295	29	7·3	3·5	296	31	7 4	3 5	317	31	7·5	4·6	129	31	4 7	2·7	088
2·1 ,, .	27	8 4	5 2	311	29	8·7	3 2	302	28	8·3	3·9	290	29	7·2	4·1	291	31	5 3	3·2	096	31	4 7	2·1	100
3·0 ,, .	26	10·4	7·3	299	25	8·3	4 1	294	23	9·0	4·1	297	22	8·5	5·7	178	30	5 5	3 9	023	29	5·0	2·0	051
3·6 ,, .	17	9·1	7 0	298	18	7·4	3·8	311	20	9 5	4·7	298	3	5 7	2 5	152	30	6·2	4 5	003	29	5·8	1·8	018
4·5 ,, .	13	10·1	8 5	288	15	8 5	4 7	307	12	10 5	7·1	287					27	5·9	2 8	310	22	6·3	2·7	309
5·4 ,, .	10	12 9	10 9	290	11	10·2	4 6	262	8	10 5	7 4	291					24	6·5	4·6	274	16	7·7	5·8	294
6·0 ,, .	9	15 3	13·0	288	8	13 3	9 7	280	6	11 3	9 3	299					22	7 3	5·2	275	14	9·1	6·6	286
7·2 ,, .	3	21.7	18 3	297	4	21 3	10 7	292	2	19 0	13·5	298					17	8 9	6 2	288	12	10·9	8 4	290
9·0 ,, .	1	17 0	17.0	262													6	9·8	8·5	277	6	16.3	14.6	312

Station	ANANTAPUR				ASANSOL												AURANGABAD/ CHIKALTHAN			
Time in I.S.T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	4 3	3 6	098	31	0 9	0 4	284	31	1 8	0·2	272	31	1 1	0·3	306	31	1·4	0·5	250	31	2·5	1 9	293
0·15 a.g. .	31	9 0	7 4	105	31	4·8	2 1	322	31	3 0	1 1	299	31	3 1	1 0	296	30	6·1	1 4	316	31	7·8	4 3	337
0·3 a.m.s.l. .					31	4 9	2·0	325	31	3·1	1·2	293	31	3 3	1 2	273	30	6 4	1 8	318				
0·6 ,, .	31	9·4	7 6	107	31	5·9	2·6	325	31	3 0	1·5	293	31	3·8	1 8	280	30	6·7	2 1	317				
0·9 ,,	31	9·6	7·9	113	30	6·3	3·4	310	31	4·0	2·2	284	31	4·3	2 4	275	30	5 6	2·8	291	31	10 0	5.8	350
1·5 ,, .	31	6 3	4·8	106	30	7·4	5·4	291	30	6 6	5 6	278	31	5 5	4·4	282	30	6 0	4·4	278	31	11·1	6·3	338
2·1 ,, .	31	3·8	2 4	088	22	8 0	7·1	283	29	9·5	8 2	281	31	7·6	7 5	281	27	7 3	6·5	272	31	9·8	5·0	298
3.0 ,, .	31	4·3	1 9	023	16	9·9	9·0	287	16	10 8	9·3	284	31	12·4	11·8	283	22	11·2	10·3	281	25	7 6	4·7	238
3.6 ,, .	24	5·2	2 6	339	10	12 4	11·4	291					29	14·4	13·1	272	11	12·1	10·6	285	17	8·0	5 0	229
4·5 ,, .	8	5·9	4 0	296	6	17 3	16 2	292					25	16·7	16 0	284	1	16·0	16 0	286				
5·4 ,, .	2	5 0	4 7	311	4	21 5	20·7	293					20	18·9	18·5	286								
6·0 ,, .					3	20·3	20·2	271					16	21·3	20·8	281								
7·2 ,, .					2	23·5	23·5	278					8	24 3	23·3	305								
9·0 ,, .					1	23 0	23 0	264					3	22 7	22·0	276								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 0 Km. above mean sea level

March, 1965 (Phalguna 10, 1886 Saka—Chaitra 10, 1887 Saka)

Station	AURANGABAD/CHIKALTHAN								BAHRAICH								BANGALORE			
Time in I.S.T.	1730				2330				0530				1130				1730				0530@			
Ht. in Km	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3 4	2 7	283	31	3 2	2 4	298	31	1 3	0 1	345	31	1 8	0 3	089	31	1·8	1·0	286	31	2 3	1 5	116
0·15 a. g. .	31	5 2	3 9	281	31	8 8	5 7	334	30	6 5	3·2	327	31	4 9	0 6	119	31	5 3	3 0	294	31	5 9	3 0	132
0·3 a.m.s.l. .									30	6·7	2·7	320	31	4 9	0 6	143	31	5 5	2 8	275				
0·6 ,, .									30	8 0	3 3	309	31	5 8	0 6	255	31	6 0	3 4	282				
0·9 ,, .	31	4·8	3 6	289	31	10·3	6 6	339	30	8·8	4 0	308	31	6 4	2 2	290	31	9 8	3 5	281				
1·5 ,, .	31	4 8	3·7	286	31	9 7	6·0	323	30	9 0	5·9	301	31	7·6	4 4	286	30	7·4	4 8	283	31	7·0	3 5	109
2·1 ,, .	30	5 1	4·0	283	31	8 2	4·4	297	28	9 7	8 2	297	30	8·1	4·4	300	30	8·1	5 7	291	31	6 7	4 4	068
3·0 ,, .	24	5·7	4·3	270	22	7·2	4 6	236	26	10 2	8 9	289	28	9 1	8 6	289	29	10 0	8 0	284	31	6 4	5 0	045
3·6 ,, .	18	8·3	6 4	263	15	6 6	3 9	232	23	10 4	9 4	283	25	10 0	9 6	289	26	10 9	8·6	289	31	5·8	2 9	002
4·5 ,, .	12	12·2	11 8	270					21	13 2	11 8	280	24	13 0	12 0	285	23	14·0	12 6	290	31	4·0	0·8	021
5·4 ,, .	9	13 9	13 3	275					11	12 4	10 9	282	19	13 8	12 1	280	21	16 6	14 5	282	31	5·4	2·7	128
6·0 ,, .	7	17 3	17 1	276					9	14 2	13 4	276	18	17 5	17 2	280	19	18·9	17·4	285	31	5 2	3 0	278
7·2 ,, .	2	26 0	25 0	290					3	13 7	13 7	304	10	19 3	17·3	276	12	19·1	15 8	280	31	8 0	4 8	278
9.0 ,, .													2	28 0	25 9	266	1	20 0	20 0	260	30	10 1	8 0	262

Station	BANGALORE												BAREILLY								BEGAMPET			
Time in I.S.T.	1130				1730@				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	2·5	1 5	133	31	2 8	2 2	095	31	3 7	2 3	118	31	1·3	0 4	349	31	1·4	0 6	303	31	1 8	0·5	129
0·15 a.g. .	31	4 5	2 6	132	31	4 7	3·3	098	31	9·1	7 5	125	31	6·3	1·5	350	30	4 6	2 4	301	31	5 8	2·4	153
0·3 a.m.s.l. .													31	6·0	1 6	347	30	4·4	2·7	297				
0·6 ,, .													31	8·1	2·5	320	30	6·1	3·4	292	31	4·3	1 3	149
0·9 ,, .													31	8 5	3 8	306	30	6·2	3 9	286	31	7 4	3 6	160
1·5 ,, .	31	5·4	3 3	105	31	5·0	3 6	092	31	9 0	6 8	117	31	9 0	4 9	305	30	6 8	4·4	277	30	7 2	3·3	159
2·1 ,, .	31	6 6	5 0	073	31	5·1	3 7	078	31	6·0	3 2	083	31	9 6	5·9	297	29	7 6	5 8	283	30	5·3	2 3	214
3·0 ,, .	30	7·1	5 3	049	31	4 9	3 2	046	30	4 8	3 6	038	28	9·0	6 1	291	28	8·8	7·2	290	30	5 9	2·4	264
3·6 ,, .	26	5 9	2 7	043	31	4 4	2 5	035	30	5 1	2 7	032	22	9 5	7 7	294	27	10·6	9 0	284	30	6·6	4·1	308
4·5 ,, .	26	4 9	0·2	111	29	4 0	1·8	313	20	3 7	2·0	009	17	9 1	8·1	298	24	12 5	10 1	279	27	8 5	6 8	295
5·4 ,, .	25	5·2	1 1	253	29	4·9	2·2	281	7	3·1	0·9	125	13	11·1	10 2	263	19	13 0	12 3	277	24	10 2	8·9	278
6 0 ,, .	25	5·6	1·6	275	29	5·6	3·0	299	5	5 8	2·4	150	7	12·0	9·7	266	13	14·4	12·8	270	22	11 4	9·8	276
7·2 ,, .	25	6·1	3 7	268	28	7·4	4 5	280	2	5 0	4 9	280	3	8 0	5·7	316	7	16 1	14 2	288	17	14 8	12·7	269
9·0 ,, .	21	10·5	8 6	253	26	12·4	10·1	262	1	8 0	8 0	265	1	9·0	9·0	215					12	18 4	15·3	259

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

March, 1965 (Phalguna 10, 1886 Saka—Chaitra 10, 1887 Saka)

Station	BEGAMPET								BHAGALPUR								BHOPAL/BAIRAGARH							
Time in I S.T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	2 9	0·9	127	31	3·2	2·5	125	31	2·4	0 8	225	31	1 7	1·5	280	31	2 4	0 8	075	31	3·4	1·9	287
0·15 a.g. .	31	4·5	2·1	140	31	6·8	5 8	138	31	5·7	2 0	238	31	4 8	3·2	290	31	7 0	2·7	083	31	5·0	3·6	276
0·3 a.m.s.l. .									31	6 1	2 2	269	31	5 1	3 9	291								
0·6 ,,	31	4 2	1·8	140	31	5·5	4 5	137	31	6·4	3 8	310	31	5 6	4 5	289	31	6 0	2·3	083	31	4·3	3·1	281
0·9 ,,	31	4 0	2 0	145	31	7·5	6 3	143	31	5 8	4 3	302	31	6 2	5·5	283	31	7 9	1 6	050	31	5·3	4·1	276
1·5 ,,	31	4·1	1 4	183	31	5 7	3·6	160	31	7·6	6 6	289	31	8 0	6 8	278	31	6 0	2 7	301	31	5·7	4·5	271
2·1 ,,	31	4 1	1·6	242	31	4·2	1·2	235	26	9 5	7·7	282	29	9·4	8·6	276	31	7 3	5·5	273	31	6·7	5·7	269
3·0 ,,	31	4·4	3·2	278	31	5 6	4·2	288	18	11 1	9 6	284	21	13 6	12·9	281	31	11·2	9·0	257	30	9·0	8·3	262
3·6 ,,	31	5·6	4·2	283	21	7 4	5 9	307	13	10 4	9·2	277	13	12 5	12 1	279	30	12 8	10·4	257	29	10·8	9·8	264
4·5 ,, .	29	8·1	6·8	286					3	11 7	9 9	284	7	12 1	12 0	285	26	15 0	10 2	262	25	14·4	13·3	269
5·4 ,, .	29	10 4	9 3	285					1	12 0	12 0	258	3	13 0	12 7	283	21	15 7	12 7	267	22	17·3	15·9	272
6·0 ,, .	26	12·3	10·9	279									3	14 3	13 9	297	17	16 1	15·5	273	18	20·3	19·1	279
7·2 ,, .	20	13·9	12·8	267													8	21 2	19 1	276	6	26·7	24·8	280
9·0 ,, .	15	18·6	17 0	282													3	29 3	28·6	272				

Station	BHOPAL/ BAIRAGARH				BHUBANESHWAR												BHUJ/RUDRAMATA			
Time in I.S.T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·4	0·9	350	31	2 7	1·7	232	28	4·5	3·6	223	31	4 8	3·6	198	31	4·1	3 7	213	31	1·0	1·0	260
0·15 a.g. .	31	8·5	3 1	335	28	6·7	5 0	230	28	6·3	4·0	215	30	6·8	5 9	190	30	7·8	7 3	209	31	6·1	5·0	294
0·3 a.m.s.l. .					28	7 3	5 6	231	28	5·1	3·3	219	30	6·9	3·9	197	30	8·9	8·1	211	31	7·1	5·7	299
0·6 ,,	31	8·0	2·7	343	27	7 8	5·5	239	28	5·1	3·4	226	30	5·9	4·7	213	30	8·3	7·1	217	31	7·6	5·9	301
0·9 ,,	31	8·0	3·4	321	26	6·5	4 0	251	28	5·5	4·9	234	30	4 7	3·4	236	29	6·9	4·9	231	31	6·6	5·0	293
1·5 ,,	31	6·3	3·5	281	26	6·5	3·8	296	27	5·8	3·3	263	30	5·3	4 3	290	26	5·8	4·4	285	31	6·9	4·0	281
2·1 ,, .	31	7·0	4·9	265	25	7·3	5·5	309	25	6·9	4 5	299	29	7·0	5·7	303	25	6·9	5·3	303	30	7·4	4·2	283
3·0 ,, .	30	9·1	7·6	257	21	8·8	7·6	319	11	10·3	8 0	335	28	10·3	8 6	305	18	7·9	5·5	311	30	8·4	5·7	293
3·6 ,,	22	9·9	7·9	265	20	9·3	8 6	308					26	11·7	10 5	300	6	7·0	5·2	302	29	9·5	7·5	286
4·5 ,, .					11	9·5	8 1	305					20	12·8	10 8	290					25	9·8	8·5	280
5·4 ,,					5	10·6	10 6	287					13	14 0	13 7	275					24	12·8	11·6	280
6·0 ,,					5	12 4	12 2	281					8	16 0	15·5	274					23	14·7	13·6	279
7·2 ,,													4	16 7	16 5	273					14	19·0	17·5	278
9·0 ,,																					4	26·0	21·9	291

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km above mean sea level

March, 1965 (Phalguna 10, 1886 Saka—Chaitra 10, 1887 Saka)

Station	BHUJ RUDRAMATA								BIKANER												BOMBAY/SANTA-CRUZ			
Time in I. S. T.	1730				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3 5	2 3	273	31	3 5	3·2	259	31	0·8	0·2	190	31	1 7	0 8	271	31	2 0	0·3	207	31	0·5	0·3	010
0·15 a.g. .	30	5·0	3 1	273	31	7 6	6·4	267	31	7·1	2 1	145	31	5 5	2 7	270	31	7·9	1 1	108	31	4 4	3 7	345
0·3 a.m.s.l. .	30	5·2	3·3	274	31	7 8	7 0	272	31	5 5	1 9	140	31	5 0	2·5	267	31	6·8	1 3	118	31	4·6	3 8	344
0·6 ,, .	30	5·2	3·2	280	31	7·1	5 8	284	31	7·4	1 5	157	31	6·3	3·1	273	31	7 4	1 0	007	31	5·2	4·2	346
0·9 ,, .	30	5 1	3 0	285	31	6 5	4 6	287	31	6·4	2 4	240	30	6·0	2 6	274	31	7·0	1 8	298	31	5 8	4·1	340
1·5 ,, .	30	5 0	3·9	284	31	6 4	3·5	281	31	7 1	4·3	269	29	6 0	4 9	279	30	5 6	3·2	192	31	6 0	3 8	307
2·1 ,, .	30	6 5	5 2	285	30	6·7	3 3	288	30	7·8	5·8	269	27	5·8	5 7	281	28	6 8	4·6	276	31	6·4	5 0	254
3·0 ,, .	30	9 0	7 3	288	28	7 5	4 6	293	27	9·5	7 0	253	26	8·0	6·9	285	24	9 0	6 5	278	31	6·9	4 6	200
3·6 ,, .	30	10·3	8 9	283	9	8 6	5·6	331	22	10 2	8 2	288	24	10 0	7·3	273	1	9 0	9 0	277	31	7 7	3·9	216
4·5 ,, .	27	12 6	11·0	285	1	16 0	16 0	315	21	12 9	11 0	286	21	12 6	11·0	277					31	8 9	7 5	259
5·4 ,, .	24	14·5	13·0	288	1	19 0	19 0	310	13	14 0	12 3	275	17	15·0	13·5	282					31	13 1	12 3	267
6·0 ,, .	22	14·5	13·3	283					6	13 0	11 6	269	14	17 2	15·2	287					31	15 5	14 5	263
7·2 ,, .	16	17.2	16.0	278					1	15 0	15 0	309	5	20·0	16·1	286					31	19 3	18 0	269
9·0 ,, .	4	32 7	26 7	273																	31	26 7	24 3	265

Station	BOMBAY/SANTACRUZ												CALCUTTA/DUM DUM											
Time in I. S. T.	1130				1730*				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1 4	1 2	305	31	6 2	5·9	308	31	1 4	1 2	323	31	0·4	0·3	184	31	1 5	0 6	219	31	1·4	0 8	208
0·15 a.g. .	31	2 9	2 0	316	31	6 7	6 3	305	31	5·0	3 2	337	31	5 0	3 0	233	31	3 3	1 1	249	31	5 5	2·4	228
0·3 a.m.s.l. .	31	3·2	2 2	340	31	5·8	5·4	304	31	5·5	4 6	326	31	5 9	3·6	238	31	3 0	1·2	247	31	5 3	2 2	222
0·6 ,, .	31	3·9	2 3	359	31	4·6	3 9	305	31	5·5	4·8	319	30	6 4	3 6	238	31	3 6	1·8	239	31	5 4	2·1	221
0·9 ,, .	31	4 8	3 0	010	31	4 2	3 3	308	31	4·9	4 3	319	30	6 9	4 3	253	30	4·2	2 4	262	31	5 2	2 4	243
1·5 ,, .	31	5·7	3·6	298	31	4 6	3 6	285	31	5·4	4 3	298	30	6·9	5 5	278	27	6·2	5 0	270	31	5·9	4 0	276
2·1 ,, .	31	6·5	5·0	250	31	5 6	4 2	250	31	6 0	3 8	258	30	8·1	6·8	281	22	8·9	7 7	288	31	7 9	6 5	285
3·0 ,, .	31	7 7	6 2	222	31	7·0	4 4	215	31	6 6	3 5	212	30	11·2	10 3	291	19	12·2	10 8	294	31	11 5	10 6	298
3·6 ,, .	31	8·1	5 6	234	31	6 5	4 2	228	26	7 0	2 4	218	30	12 4	11 4	292	18	13 4	11 8	294	31	13 3	12 2	297
4·5 ,, .	30	9·9	8 7	271	30	8·2	6 8	263	22	8·0	7 0	262	30	14·0	13 2	285	17	15 0	14 3	288	31	15 8	14·8	255
5·4 ,, .	30	13 5	12 3	274	30	11·9	11·2	264	15	10·1	9 3	266	30	18 0	17 1	275	15	18 3	16 5	276	31	19 5	18 4	278
6·0 ,, .	30	16 0	14 7	274	30	15·0	14 1	266	8	13 0	11·1	266	30	22 0	21 2	271	14	23 5	22 0	270	31	23 5	22 2	273
7·2 ,, .	27	20 4	18 8	274	29	19 5	18·6	267	1	12·0	12 0	290	29	27 9	26 3	265	7	29 4	28 6	270	30	30 1	28 8	268
9 0 ,, .	22	27 8	25 5	266	29	25 4	22 4	266					28	34 9	32 5	264	4	28 8	27 5	260	28	33 9	31 8	261

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

March, 1965 (Phalguna 10, 1886 Saka—Chaitra 10, 1887 Saka)

Station	CALCUTTA/ DUM DUM				COCHIN/WILLINGDON†												DEHRA DUN							
Time in I. S. T	2330				0530				1730				2330				0530				1730			
Ht. in Km	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·5	0 9	184	31	0 5	0 4	045	31	4·1	3 5	263	31	0 7	0·5	307	31	0·6	0 4	002	31	1·1	0·8	250
0·15 a. g.	31	7·5	5 2	216	31	2 8	2·1	019	30	4 3	4 1	273	30	2 5	1·4	336	29	2 0	1.0	082	28	3·1	2·1	245
0·3 a.m.s.l.	31	7·3	5 5	226	31	2·6	2.2	352	30	5 3	4 9	274	30	2·6	2·2	323								
0·6 ,,	31	6 2	4 5	240	31	2·9	2 2	333	30	4 0	3 5	284	30	2·8	2·3	304								
0·9 ,,	31	5·8	4 1	256	31	2 4	1 0	339	30	3 3	1·7	349	30	3 0	1 4	320	29	1 8	0 7	090	28	3 1	2 1	240
1·5 ,,	30	6 3	5 1	288	31	3 4	1·9	051	30	5·4	4 3	055	29	3 6	2 0	078	28	3 5	0 5	233	28	3·5	2·1	248
2·1 ,,	28	9 9	8·3	290	30	5 7	5 0	062	30	7 4	6 8	062	28	4·7	3 9	067	27	6 0	1 9	286	28	4·3	1·6	270
																	17	6 3	3·3	305	22	5·1	1·8	270
3·0 ,,	18	12·5	10·7	234	27	6·0	5 5	071	28	6 3	5 6	062	17	7·8	6·9	059								
3·6 ,,	4	12·5	5 7	353	13	5 2	3 4	058	23	4·5	3 6	048	4	6 5	6 3	069	12	6 0	3 4	299	19	6·5	3·7	299
4·5 ,,					2	6·5	5 4	104	20	4 0	1.6	048					3	3 3	2·9	270	18	8 5	5·6	292
5·4 ,,									20	4 3	1 0	094					1	10 0	10 0	295	17	13 2	10·6	289
																					15	15·0	11·7	283
6·0 ,,									16	6.1	1 4	187												
7·2 ,,									6	6 2	5.6	093									11	18·7	11·3	292
9·0 ,,									3	6 0	5 9	148												

Station	DIBRUGARH/MOHANBARI												GADAG							
Time in I. S. T.	0530				1130				1730				2330				0530				1730			
Ht. in Km	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·4	1·2	049	31	0 9	0·8	055	31	0 7	0·6	052	31	1·3	0 9	040	31	2·4	1 4	224	31	2·3	0·2	229
0·15 a. g.	30	5·6	4·6	053	30	3·4	3 0	051	31	3·3	2·5	063	25	4·4	3 8	035	31	4 4	1 7	240	31	3·3	0·2	184
0·3 a.m.s.l.	30	5.3	4.7	047	30	3 4	3 0	051	31	3 4	2·4	064	25	4 5	3 4	036								
0 6 ,,	30	5.7	4·4	055	30	3 7	3 3	055	31	3 8	2 8	070	25	4·3	3 4	050								
0·9 ,,	30	4 3	2 6	079	30	2·8	1·3	068	31	2 8	1 4	085	25	3 5	2·1	082	31	5 0	0 7	298	31	3·4	0 3	216
1·5 ,,	29	4 0	1 8	089	30	3·7	2 8	214	31	4·1	2 5	212	25	3·5	2 4	200	31	6 6	1 4	167	31	3 6	0 3	199
2 1 ,,	29	5 0	4 3	230	29	6·0	5·3	220	30	6·6	6·0	282	23	5·0	3 8	217	31	5 1	2·7	170	31	3·7	0 5	189
																	31	3 2	1 0	155	30	3·5	1·0	224
3·0 ,,	26	7·1	6·6	238	27	8·0	7·1	229	27	9·3	8·7	234	18	6·7	6·2	237								
3·6 ,,	17	7·0	5 0	243	18	8·0	6·4	230	18	9·8	8·9	228	12	6·9	5 9	245	31	3·8	1 0	333	30	3·8	1·3	255
4·5 ,,	10	9 5	7 7	268	14	10·4	8·4	251	15	10 1	8·6	230					31	6·1	3·7	283	27	5·4	3·5	285
5·4 ,,	8	11 0	9 9	283	11	13·5	11·6	257	8	8·9	7·4	240					28	8 5	6.2	285	23	7·4	6·3	283
																	28	9.1	7·0	280	22	8·8	7·9	281
6·0 ,,	7	10 6	8·0	274	11	15·5	14·7	256	7	11·7	9·9	246												
7·2 ,,					11	23 0	22·0	261	1	19 0	19·0	275					25	10·9	8.6	280	21	11·6	9·7	270
9·0 ,,					7	35·4	33·3	231									23	15·6	12.8	273	16	17·7	14·7	296

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

March, 1965 (Phalguna 10, 1886 Saka—Chaitra 10, 1887 Saka)

Station	GADAG				GANGTOK								GAUHATI											
Time in I. S. T.	2330				0830				1730				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	4·6	3·1	257	31	1·0	0·6	023	31	1·7	0 6	145	31	0·4	0·4	074	31	2 3	1·2	017	31	1·1	0·0	020
0·15 a.g. .	31	8·0	4·6	240	23	2 1	0·4	347	14	5·1	5·0	178	31	2·9	1 5	088	31	3·5	2·2	027	31	3 4	1·0	334
0·3 a.m.s.l. .													31	3·1	1·4	087	31	3·2	1·6	025	31	3·4	1·1	322
0·6 ,, .													31	3 8	0·6	096	30	3·6	0 8	339	31	3·3	1·1	287
0·9 ,, .	31	8·5	2·9	269									31	4·1	1·0	259	30	4·7	2 7	254	31	3·9	2·2	268
1·5 ,, .	31	6 0	1·4	145									30	5 4	3·5	269	28	6 2	5·3	245	31	5·9	5·5	260
2·1 ,, .	30	4·6	3·5	124	23	1·6	0·6	160	14	6·0	5·9	177	30	7·1	5 9	269	28	7·7	7·6	252	31	8 0	7·8	255
3·0 ,, .	30	3·7	2·3	115	20	2·6	1·3	187	11	5·4	4·8	179	30	8·5	7·7	271	28	11·3	10 6	263	30	10·4	9·8	259
3·6 ,, .	30	3·8	0·5	085	19	5·3	3·2	257	6	5·3	4·1	206	30	10 9	9·1	269	26	12·1	11 6	268	30	11·5	10·7	259
4·5 ,, .	21	5·7	4·3	288	18	11·1	8·3	263	3	6·0	5 9	255	30	14·6	13·9	275	24	14·9	14 2	268	30	14·3	13·2	270
5·4 ,, .	14	7·6	6·4	288	15	14·8	13·9	266	2	13·0	12·9	261	29	18·6	17·8	273	21	19·6	18 9	270	30	18 2	17·1	272
6·0 ,, .	4	5·7	4·5	289	11	17·2	16·2	269	2	22·5	22·3	264	29	20·3	19·2	271	20	23 5	23·0	266	30	20·5	19·6	272
7·2 ,, .	1	13·0	13·0	340	4	16·5	15·6	281	1	20·0	20·0	285	29	27 3	25 9	272	17	31 8	31·6	269	30	26·3	25·4	273
9·0 ,, .					2	24 0	23·5	279	1	36 0	36·0	285	23	35 6	33 9	268	4	51·0	48 0	272	27	39·1	37·6	269

Station	GAUHATI				GAYA												GOPALPUR			
Time in I. S. T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·7	0.6	085	31	1·6	0·8	178	31	3·3	1·6	263	31	3·8	2·6	320	31	1·9	0·4	206	31	1·5	0·9	232
0·15 a. g. .	29	3·5	1·2	128	31	4·3	1·7	222	31	4 3	2 0	273	31	5·7	3·9	318	31	6·2	2·3	318	31	6·2	4·1	220
0·3 a.m.s.l. .	28	3·6	1·0	102	31	4·3	1·4	241	31	4·5	2·2	270	31	6·0	4·3	318	31	6·5	2·5	317	31	6·8	4·9	220
0·6 ,, .	28	3·7	0·4	152	31	4·5	2·1	299	31	4·3	2·4	277	31	6·4	4·7	308	31	7·0	4·0	314	31	7·0	4·6	223
0·9 ,, .	29	4·1	2·0	257	31	5·1	3·3	294	31	4·4	3·1	281	31	6·1	4 7	304	31	6·3	4·7	302	31	5·8	3·8	229
1·5 ,, .	29	5·4	4·5	258	31	7·5	5·9	282	30	7·9	7·0	287	31	7·1	5 4	282	31	7·9	7·1	283	28	5·2	2·1	286
2·1 ,, .	27	7·0	6·5	258	31	9·8	8·5	279	25	10·2	9·2	284	29	9·5	8·4	274	28	9·7	8 7	281	28	6·3	3·9	312
3·0 ,, .	23	10·1	9·5	260	29	13·4	12·6	287	13	12·0	11·2	282	27	14·3	13·1	277	18	11·4	10·5	284	25	8·0	6·9	318
3·6 ,, .	8	10·5	9.9	093	24	14 3	13 9	286					25	15·5	14 5	283					22	9·4	8·4	308
4·5 ,, .	2	10·0	10 0	267	15	17·0	16·6	286					20	18·3	17·6	284					16	10 8	10·0	290
5·4 ,, .					9	17·0	16 2	285					12	17·2	16·7	275					11	12 0	11·3	265
6·0 ,, .					4	19·5	15·5	272					10	17·9	17·6	273					11	13·8	13·1	267
7 2 ,, .					1	14·0	14·0	290					2	19·5	19·2	286					2	22·5	22·5	250
9 0 ,, .																								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

March 1965 (Phalguna 10, 1886 Saka—Chaitra 10, 1887 Saka)

Station	GOPALPUR								GORAKHPUR								GWALIOR							
Time in I. S. T.	1730				2330				0530				1730				0530				1130			
Ht. in Km	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3·8	3·5	200	31	2 6	2·5	215	31	0·8	0·7	225	31	1·3	0·9	279	31	0 9	0 3	187	31	2·4	0·7	208
0·15 a. g.	29	9·0	8 5	188	30	7·8	7·5	209	31	6·5	2·6	315	31	5·3	3·7	284	31	4·6	0 3	134	31	4·1	0·9	207
0·3 a.m.s l. .	29	8·5	7·8	190	30	7·5	7 1	211	31	7·0	2·8	307	31	5 7	3·9	283	31	3 8	0 9	184	31	3·5	0.8	204
0·6 ,, .	28	6·9	6·1	183	30	5·9	5·3	210	31	7·9	3·6	303	31	6 7	4 5	280	31	5.4	0 5	004	31	4·4	1 2	210
0·9 ,, .	27	4·6	2 8	190	30	4·3	3 4	213	31	7 8	3 8	301	31	7 1	5 1	281	31	5 6	1 2	324	31	4·9	2·0	239
1·5 ,, .	25	4·0	1·3	287	30	4·2	1 4	270	31	8 7	6·6	292	31	7 3	6·3	280	31	5 7	3 8	296	30	6 1	3·1	273
2·1 ,, .	25	6·8	4·8	316	25	5·2	3·3	320	30	10·0	9·1	291	31	9 3	8·4	281	30	7 8	6·6	294	30	7·6	5·5	286
3·0 ,, .	24	9·6	8·7	322	19	7·7	6·9	315	24	10·9	10·5	283	27	12 5	11·5	286	28	11·5	10·4	287	29	10·2	8·6	285
3·6 ,, .	23	10·2	9·8	315	3	6·7	5·8	302	14	10 2	9 3	282	24	13·4	12·5	288	24	12 6	11 8	284	26	12 4	10·5	279
4·5 ,, .	22	10·3	9·3	289					9	10 3	8 6	285	16	12·8	11·9	289	12	24·2	20·6	282	18	15 2	14·5	278
5·4 ,, .	22	14·0	12·8	272					4	17 3	14 3	295	11	15 1	13 9	283	12	16 5	15.6	286	18	18.7	17.9	280
6·0 ,, .	21	16·5	15 7	273					3	22·0	21 3	287	7	13 3	12 0	275	10	17 3	15 9	285	14	20 9	19·8	290
7·2 ,, .	6	18·7	17·7	268									2	11 5	9 7	278	5	20.6	19 2	280	7	24 7	22.9	280
9·0 ,, .																	2	34.0	34 0	273	1	30 0	30.0	285

Station	GWALIOR								IMPHAL/TULIHAL															
Time in I. S. T.	1730				2330				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·3	1·4	305	31	0·9	0·2	332	31	0·5	0·2	317	31	0·9	0·7	260	31	3·4	3 1	285	31	1·0	0·3	316
0·15 a. g. .	31	4·6	2 7	318	31	6·1	3·0	042	30	2·2	0·4	010	31	2·7	1·5	235	31	5·9	5·5	284	31	3·1	0·8	240
0·3 a. m. s. l. .	31	4.1	2.3	321	31	5.2	2.7	048																
0·6 ,, .	31	5 2	3.2	319	31	6 5	2.5	026																
0·9 ,, .	31	5·4	3 1	305	31	6·1	1 6	001	30	2 1	0·5	037	31	2·7	1·5	236	31	5·7	5·4	284	31	2·9	0·7	275
1·5 ,, .	31	5·5	3·3	279	30	5 9	4 3	272	30	4·3	3·2	280	31	4 1	3 6	259	31	5·5	5·1	266	31	6·0	5·1	269
2·1 ,, .	31	7·0	4·9	267	30	7·9	6 4	269	30	7·9	7·0	273	31	6·6	5·9	266	31	7·0	6 4	253	31	8·3	7·5	266
3·0 ,, .	29	10·8	9·3	272	25	10·4	8 2	274	27	11·5	10·8	273	30	10·7	9 7	267	30	11·9	11.0	257	16	11·2	10 3	267
3·6 ,, .	26	14·1	13·2	276	4	10.7	9·6	258	17	11·7	11·0	270	21	13·5	12·3	267	26	14·5	14·0	263	6	11·5	11·2	261
4·5 ,, .	23	16·5	15·4	262					10	13·6	12·7	264	10	15·7	14·8	281	8	13·5	12·3	265				
5·4 ,, .	13	16.1	15·4	279					3	14·3	13·9	264	4	15·0	15·0	283	2	19·0	18·9	289				
6·0 ,, .	12	18·9	18·6	283									1	10.0	10.0	296								
7·2 ,, .	6	23.5	23.3	290																				
9.0 ,, .																								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 0 Km above mean sea level

March, 1965 (Phalguna 10, 1886 Saka—Chaitra 10, 1887 Saka)

Station	JABALPUR												JAGDALPUR											
Time in I S T.	0530				1730				2330				0530				1730				2330			
Ht in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·5	0·4	152	31	1 4	0 6	311	31	0 6	0 2	132	31	0 2	0·1	135	31	1·5	1·1	235	31	0 8	0·4	190
0·15 a.g.	31	5·4	2·4	108	31	4 7	2·1	312	31	6 2	1 9	091	31	4·3	2·5	193	30	4 5	2·8	247	31	6 1	1·7	190
0·3 a.m.s.l.																								
0·6 ,,	31	6 3	2·9	105	31	5·0	2 4	308	31	6 6	1·8	088	31	2·4	1 5	190	30	3·3	2 0	248	31	4 2	1 2	187
0·9 ,,	31	7·1	1 6	093	31	5 4	3 1	294	31	4 4	0 9	017	31	5·4	3 4	203	30	4 8	3 2	247	31	6·2	1·7	193
1·5 ,,	31	6·5	3 2	275	31	6 0	4 0	286	31	5·7	3 0	277	30	4 7	2 1	229	30	4·7	3·2	267	31	4·9	1 5	245
2·1 ,,	31	8·6	6·8	271	31	7·1	5·8	274	31	7 1	5·6	268	30	4·4	2 2	293	29	4·8	3·2	263	31	4 5	2 5	275
3·0 ,,	30	11·8	10·5	268	29	11·2	10 0	265	23	9 7	8·8	271	30	7·0	4 9	309	26	4·7	3 3	285	29	5·1	3 7	299
3·6 ,,	24	13 3	11 9	268	28	13 8	13 2	265	10	11·8	10 6	272	28	8·1	6·8	312	21	6 5	4 9	291	18	7 4	6 2	310
4·5 ,,	15	13 4	12 7	281	24	16 0	15 1	271	3	16 3	16 0	279	24	10 8	9 2	303	15	8·9	7·9	301	9	7 5	7 3	299
5·4 ,,	10	15 2	14 5	284	19	18 4	17 2	277					23	12 6	11 1	285	12	12·5	12 1	288	3	5·3	5 0	299
6·0 ,,	8	17 4	16 6	282	16	20 9	20 2	280					21	14 5	12 2	277	10	15 7	14·7	288	2	3·0	2·9	325
7·2 ,,	5	20 4	19 3	253	8	24·1	23 1	285					14	17 1	15 4	277	9	19·4	18 0	282				
9·0 ,,	1	19 0	19 0	304									7	19 3	17 6	281	5	24 0	23 7	296				

Station	JAIPUR/SANGANER												JAMSHEDPUR											
Time in I.S.T.	0530				1730				2330				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0 9	0·5	072	31	2·3	1·5	276	31	0 9	0·6	029	31	0·7	0 5	321	31	1·5	0 8	287	31	2·0	0·6	347
0·15 a.g.	31	5·1	1·2	065	31	4·9	2·2	276	31	5·8	2·3	338	31	3·5	2·5	297	31	2 6	0·8	274	31	4·0	1·5	358
0·3 a.m.s.l.													31	3 6	2 3	296	31	2·6	0 7	272	31	4·1	1·4	352
0·6 ,,	31	5 8	0·8	073	31	5·0	2·4	272	31	6·0	2·3	337	31	4·2	1·9	293	31	3 0	1·2	300	31	4·3	1·5	326
0·9 ,,	31	6 9	1 3	257	31	5 2	3·0	278	31	6·3	2·7	316	31	4·8	2·5	281	31	3 5	1·3	284	31	5·1	1·9	294
1·5 ,,	31	8·2	4 2	273	30	5 8	3·8	276	30	5 9	3 2	286	31	6 5	4 9	279	31	6 3	3·8	287	31	5 2	3·3	269
2·1 ,,	31	9 0	6·0	284	30	5·9	4·4	274	26	6·9	4·1	267	31	7 6	6·1	281	29	7·9	6 2	280	27	7·0	6·2	270
3·0 ,,	29	9·9	7 8	281	27	8 5	6·2	281	17	8·4	6·9	274	26	10·7	9 7	294	15	11 0	9·1	299	25	10 9	10·0	285
3·6 ,,	29	11·3	9·3	278	27	10·5	8 7	279	4	8·7	8·6	260	17	13·9	13 3	298					21	14 2	13·2	290
4·5 ,,	24	11·4	9·7	270	24	13·1	11 4	285					14	14·1	13·5	293					17	15 4	15 0	291
5·4 ,,	19	19 3	12 5	271	21	15·2	13·3	273					8	15·1	14·2	278					10	14·2	13 7	281
6·0 ,,	17	16·2	14·9	273	20	17.3	15·7	269					4	18 7	17·7	273					3	24·3	22·7	275
7·2 ,,	7	18·6	17.2	277	10	18.8	18·3	292																
9·0 ,,	2	16·5	15 8	271	1	27 0	27·0	275																

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 0 Km above mean sea level

March, 1965 (Phalguna 10, 1886 Saka—Chaitra 10, 1887 Saka)

Station	JHARSUGUDA												JODHPUR											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	1·3	0·9	030	31	2·4	1 1	253	31	1·5	0 4	009	31	1·6	0·8	005	31	1·6	0·8	221	31	2 8	1 5	258
0·15 a.g.	30	3·7	2 3	064	31	4 3	2 3	266	30	4 5	1 3	332	31	5 8	0·9	355	31	4 3	2 1	214	31	4 4	2 9	282
0·3 a.m.s.l.	30	3·2	2·3	057	31	3 8	2 0	265	30	3·5	0·7	009	31	6·4	1·2	323	31	3 6	1 7	217	31	4 5	3·0	287
0·6 ,,	30	4·3	0 8	098	31	4 3	2·5	263	30	5 0	1 4	297	31	6·3	1 6	302	31	4 4	2 1	206	31	4·5	3·4	272
0·9 ,, .	30	4·7	0 2	340	31	4 3	2·8	267	30	5 3	1 1	285	31	6·0	2 3	277	31	4 7	2 4	233	31	4·9	3·7	265
1·5 ,, .	30	5 7	2 8	292	30	5 1	4 0	273	29	5·0	2·5	296	31	6·2	4·3	265	31	6 3	4·0	249	31	5 4	4·0	262
2·1 ,, .	29	7 4	6 0	289	29	6·8	5·6	278	28	6 9	4·8	288	31	7·3	5·0	266	31	7·7	5 3	264	31	5 8	4·5	268
3·0 ,, .	29	11·2	10·0	293	28	10 1	8·6	288	25	9·7	7 9	292	31	9·4	7·1	264	31	9·8	8·0	275	31	8 8	7·2	273
3·6 ,, .	27	13·6	12 6	292	27	12 0	10 8	290	3	11 0	10 5	259	30	10 5	8 1	267	30	10·5	8·7	278	31	10 8	9 1	277
4·5 ,, .	20	15·4	14 9	292	22	14 0	12 6	285					28	12 6	9 5	270	30	13 0	11 1	274	30	15·0	13·5	271
5·4 ,, .	14	17·6	17 3	289	20	17 3	11·2	280					28	15 7	14 4	270	28	16·5	15 0.	271	30	16 7	15 7	269
6·0 ,, .	9	19 4	18·8	285	17	19 8	19 2	281					28	18 0	16 9	268	28	18·5	16 9	273	30	17 8	16·8	271
7·2 ,, .	2	21 5	20 4	295	12	25 2	24 2	280					28	22 9	21 2	269	21	23·3	20 5	273	30	22·5	21·0	269
9·0 ,, .	1	21·0	21.0	290	3	25 0	25 0	294					26	32 0	30 1	270	17	33 1	30 7	278	27	30 8	29·2	274

Station	JODHPUR				LUCKNOW/AMAUSI												MADRAS/MINAMBAKKAM							
Time in I. S. T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	2·2	1·0	300	31	1·2	0 3	285	31	3·5	1 4	302	31	1 6	0 3	293	31	1·3	0 8	164	31	2 5	1·7	154
0·15 a. g.	31	8·5	2·6	296	31	5 6	2·3	357	30	6 0	3 2	296	31	7 4	3 6	322	31	3 3	1·9	166	31	4·1	3 0	160
0·3 a. m. s. l.	31	7·5	2·3	292	31	5·7	2 9	338	30	6·0	3 2	297	31	7·4	3 7	321	31	4·2	2·8	165	31	4·0	2·9	169
0·6 ,, .	31	8·7	3·2	293	31	6·3	2·9	315	31	6·1	3·4	289	31	8 3	3 8	312	31	5·1	3 7	168	31	4·0	2·9	166
0·9 ,, .	31	7·6	3·6	292	31	7.0	4·1	307	31	6·1	3 4	281	31	8 2	3 8	303	31	5·5	3 7	158	31	4·7	3·0	148
1·5 ,, .	31	6 8	5 0	273	31	9 5	4·3	317	31	7·1	4 6	280	31	7·9	6 0	289	31	6 2	4·0	110	29	6·3	4·3	096
2·1 ,, .	31	6·8	5·2	277	31	10 9	8 7	293	31	8 4	6 4	280	27	8·4	6·8	279	31	6 7	5 3	076	27	7·4	5·5	072
3·0 ,, .	26	7·0	5·0	278	31	13 3	11 7	290	31	11 5	9 7	276	22	10·8	9 5	274	31	6 9	5 1	047	26	6·6	4·0	054
3·6 ,, .	6	6·7	5 8	270	27	12 4	11 3	281	30	14·9	12 3	278	9	10·4	9 6	273	31	5 5	3 2	032	21	5 1	3·1	055
4·5 ,, .					18	13 9	12 6	273	30	18·1	16 4	277	3	13·6	13·0	263	31	4 1	1 8	336	18	4 5	1·7	054
5·4 ,, .					15	16 7	15 4	274	24	20 9	19 5	290	1	6 0	6 0	267	31	4 5	1 0	272	18	5·0	1·3	113
6 0 ,,					11	18·1	16 5	273	21	20 9	19 3	279	1	7 0	7 0	267	31	5 2	2 2	266	18	4·6	1·8	183
7 2 ,, .					8	20 2	19 0	273	12	25 0	21 9	290					31	7 0	4 5	271	17	6 3	3 4	248
9 0 ,,					1	25 0	25 0	313	5	25 4	23 7	288					31	11 1	8 8	275	15	11 3	9 4	235

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 0 Km. above mean sea level

March, 1965 (Phalguna 10, 1886 Saka—Chaitra 10, 1887 Saka)

Station	MADRAS/MINAMBAKKAM								MANGALORE/BAJPE												MINICOY			
Time in I. S. T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	4·9	4 6	125	31	2 4	2·1	131	31	0·5	0 4	069	31	4·3	4·0	282	31	1·0	1·0	321	31	1 1	1·0	339
0·15 a g. .	31	6 4	5 9	128	31	5·9	5 3	136	31	2 7	2 3	030	31	7 1	6·8	282	31	4·1	3·9	329	31	3·5	2·8	344
0·3 a. m s l.	31	6·6	6·1	134	31	6·3	5·5	138	31	2·8	2·3	022	31	7 3	7·0	280	31	4·1	3·9	324	31	3 3	2 6	345
0·6 ,, .	31	5·6	4·9	146	31	6 1	5·1	139	31	2·6	1 2	358	31	5·7	5·2	289	31	4·2	4·0	322	31	3 2	2·4	001
0·9 ,, .	31	4·9	3·4	136	31	5·5	4·2	127	30	3·5	1 2	011	31	3·7	3·1	302	31	3·0	2·2	329	31	3·3	2·3	042
1·5 ,, .	31	6·0	4·1	093	31	5 8	4·1	097	29	4·6	0·8	093	31	4·1	2·1	022	31	3·1	1 4	333	31	4·7	3 8	083
2·1 ,, .	31	6·6	4·9	065	31	6 2	4 4	068	28	5·7	3·1	106	30	6·1	4·3	071	29	6 1	3·8	060	28	6·3	5·6	081
3 0 ,,	31	7·2	5·3	027	30	7·4	4·7	042	29	6·1	4·8	081	30	7·6	6·7	076	29	8 1	7 3	084	30	6 6	5 7	083
3·6 ,, .	31	6 4	4 3	018	18	5 4	4·5	002	28	5 5	3·1	078	30	6 3	4·2	072	16	6·0	4·3	091	28	4·7	3 8	086
4·5 ,,	31	4 3	1 8	333	9	4 2	1 2	321	27	3 9	0·8	323	26	3·7	0·8	356	11	4 5	1·6	323	25	4·8	3 4	075
5·4 ,, .	31	4 2	1·8	294	4	5 3	0·9	118	25	5·8	2·2	289	26	4·5	1·9	347	6	5·2	3·7	261	25	6·0	2·7	074
6·0 ,, .	31	5·4	3·2	282	2	7 5	2 1	185	22	5·1	1·6	281	26	5·2	2 5	331	4	4·5	2·5	302	25	5·8	1·6	085
7·2 ,, .	31	6 7	4 3	280					14	7 9	1 8	312	21	6 7	3 9	316					17	8 1	0·4	072
9·0 ,, .	31	10 7	8·4	276					7	11 6	9 7	263	9	9 1	5 7	261					11	7·5	0·7	209

Station	MINICOY												NAGPUR/SONEGAON											
Time in I. S. T.	1130				1730*				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·0	1·6	342	31	2·6	2 4	335	31	1·5	1·3	330	31	1·3	0·8	360	31	2·3	0·8	005	31	3·0	1·1	265
0·15 a g.	31	3·5	3 0	347	30	3·5	3·2	335	31	2·9	2 5	337	31	5·2	2·4	043	31	3·7	1 4	013	31	4·8	2 1	280
0·3 a.m s l. .	31	3·7	3 2	347	30	3·5	3·1	342	31	2·7	2·5	341												
0·6 ,, .	31	3·4	2 5	007	30	3·5	2 8	355	31	2·8	2·0	356	31	5·4	1 9	053	31	4·1	1·0	052	31	4·5	1·9	264
0·9 ,,	31	3·7	2 5	037	30	3 3	1·8	021	31	2·9	1·6	043	31	5·8	0·7	093	30	3 9	0·2	241	31	4·3	2·1	255
1·5 ,, .	29	5·0	3 8	077	30	5·0	3·7	075	30	5 3	4·4	073	31	5·2	2·3	244	30	4·7	2·9	251	31	4·5	2·7	259
2·1 ,,	28	6·5	5·5	083	30	6·3	5·7	075	25	7·0	6.3	074	31	5·8	4·3	253	30	6·3	4·9	246	31	5·3	4·0	250
3·0 ,,	25	6·6	5·8	076	30	5·6	4·7	062	22	6·1	4·9	071	31	7·0	6·0	260	28	8·6	6·5	255	31	7·3	6·3	258
3 6 ,,	24	5·4	3·5	087	30	4·5	3 2	062	9	4 9	4·2	074	30	8 8	7·9	265	28	9·6	8·5	267	31	8·7	7·7	265
4·5 ,, .	22	5 5	4·3	088	30	4·0	2 6	079	1	4·0	4·0	040	29	11·5	10 5	272	26	11·3	10 3	277	31	11 6	10·6	275
5·4 ,, .	19	6·4	3·7	083	30	5·7	3·1	074					29	14 1	13·2	277	24	16·4	15·9	278	31	13·7	12·9	275
6 0 ,, .	19	6·6	3·7	091	30	5 8	2·1	070					29	16·4	15·7	277	24	18·4	17·7	275	31	16·4	15 6	277
7·2 ,, .	6	8 2	1 2	075	30	7·2	0.6	132					28	21·3	20·4	273	22	25 7	23·8	276	30	21·1	19 7	274
9·0 ,, .	5	5·8	3·1	164	30	7·2	1·7	133					27	25.5	23.9	273	16	33 1	31 3	271	30	27·2	25 3	273

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 0 Km. above mean sea level

March , 1965 (Phalguna 10, 1886 Saka—Chaitra 10, 1887 Saka)

Station	NAGPUR/ SONEGAON				NEW DELHI/SAFDARJUNG												POONA			
Time in I S T	2330				0530*				1130				1730*				2330				0530			
Ht in Km	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2 5	0 3	055	31	2·3	1 2	315	31	2 7	1 4	275	31	3·0	1 5	295	31	1 6	0 9	007	31	0 2	0·1	267
0·15 a g	31	6 3	1 2	049	31	5 6	2 6	325	31	4 4	1 8	302	31	5·2	2 2	293	31	6 0	3 4	343	31	3 5	2 2	288
0 3 a m s l					31	4 3	2 2	326	31	4 4	1 9	298	31	4 3	2 4	297	31	4 8	2 5	009				
0 6 ,,	31	6 3	0 6	024	31	6 3	2·6	328	31	4 9	2 5	270	31	6 0	2 9	291	31	6 7	1 2	157	31	2·1	1·8	241
0 9 ,,	31	5 5	0 9	264	31	6·5	3 1	314	31	5 7	3·1	273	31	6 3	3 4	294	31	6 8	2 6	333	31	4·8	2·9	315
1·5 ,,	31	5·3	3 1	242	31	7 9	5·1	294	31	6 1	3 5	284	31	7 2	4 3	279	30	7·1	4·7	244	31	7 3	4 1	324
2 1 ,, .	31	5·7	4·8	243	31	8·5	6 6	290	30	7·7	4 7	295	31	8 1	5 0	274	30	7 4	5 5	263	31	5·2	1·8	267
3 0 ,,	29	8 5	7 4	256	31	10 3	7 6	280	29	9 9	9 3	285	31	9 2	6 0	274	25	8 3	6 7	263	30	5·9	3·6	212
3 6 ,,	21	9 7	8 6	273	31	11·3	8 5	277	25	11 7	8 4	284	31	11 7	8 5	271	4	7·5	6 8	254	25	6 0	3·4	228
4·5 ,, .	8	9 9	9·4	279	31	14 1	10 9	274	24	13 6	10 6	283	31	13 8	11 0	272					9	10 0	4 9	234
5 4 ,,					31	15 8	12 4	277	22	16 4	13 3	277	31	16 1	13 2	274					1	13·0	13 0	285
									21	18 5	15 5	277												
6 0 ,, .					31	18 4	15 4	271	18	22 3	18 6	274	31	18·0	15 2	273					1	13 0	13 0	255
7 2 ,, .					31	22·0	19 3	273	7	31 4	30 3	270	31	22·0	19 4	275								
9 0 ,,					31	30 8	28 2	271					31	29·7	27 1	279								

Station	POONA								PORT BLAIR											
Time in I S T.	1730				2330				0530*				1130				1730*				2330			
Ht in Km	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1 6	1·4	281	31	0 4	0·4	293	31	0 7	0 6	033	31	2·7	2 3	068	31	1·2	1 0	057	31	1 3	1·0	035
0 15 a g	31	5·0	4·5	288	31	4 6	4 5	282	31	3 1	2 5	029	31	3 8	3 3	065	31	3 5	2 9	064	31	3 3	2 5	042
0 3 a m s l .									31	3 1	2 4	030	31	3·8	3 6	063	31	3 5	2·9	063	31	3 4	2 6	048
0·6 ,,	31	3 3	2 9	293	31	2 0	1·8	268	31	3 3	2 5	051	31	3 4	2 4	055	31	3·4	2 7	049	31	3 7	2 9	062
0 9 ,,	31	4 7	4 3	290	31	6 2	5·7	298	31	3 5	2 0	067	30	3 6	1 8	057	31	3 6	2 5	043	30	3 5	2·6	077
1 5 ,,	31	4 6	3 8	288	31	7 4	6.7	299	31	4 1	2 1	088	29	3·7	2 1	079	31	3 5	2 3	061	29	3·6	2 0	070
2·1 ,, .	31	4 4	3 2	277	31	5 1	2·1	283	31	4 7	3 3	097	25	4·1	2 5	080	31	4 4	2 5	085	28	4·0	2 4	078
3 0 ,, .	31	5 3	2·6	237	31	6·1	2 8	154	31	4·0	2 1	112	19	4 2	1 4	092	31	4 0	1·5	080	26	3 5	1 4	082
3 6 ,,	31	6 1	3·6	245	29	6·2	2·4	178	31	3 8	1 8	095	17	3·9	1 5	063	31	3 3	1 4	063	15	3 6	1 4	058
4·5 ,,	30	8·5	7 3	277	12	6·0	3 5	263	31	3 8	1 3	072	17	3·9	1 5	104	30	3 6	1 3	061	11	4·3	1 7	082
5 4 ,,	30	12 7	11 5	274	3	10 0	9 1	305	31	4 6	2 0	078	15	4 1	1 5	097	30	4 9	2 0	076	5	5 0	1 3	220
6 0 ,, .	30	15 4	13 9	275	2	13 0	11·0	298	31	4 9	1 4	061	15	5 5	2 7	109	30	5·2	1 0	121	4	5 0	2 5	240
7·2 ,,	26	18 1	16 0	276					31	6 2	1 3	112	9	6 7	3 8	120	29	6 0	0·9	167	1	2 0	2 0	230
9 0 ,,	10	22 7	19 3	277					31	6 9	2 4	217	6	5·0	3·1	118	28	6 2	3 1	217				

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Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

March, 1965 (Phalguna 10, 1886 Saka—Chaitra 10, 1887 Saka)

Station	RAIPUR												RAXAUL								SRINAGAR			
Time in I. S. T.	0530				1730				2330				0530				1730				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	1·5	0 3	198	31	1 9	1 2	276	31	2 5	0·3	265	31	2·2	0 9	100	31	2 6	1 8	261	27	0 8	0 5	168
0·15 a. g. .	31	4·2	1 1	056	30	3 8	2·2	274	31	5 9	0 7	001	30	6 2	1 7	108	30	5 5	3 7	259	27	1 7	0 5	158
0 3 a. m. s. l. .													30	6 6	1 4	071	30	5 7	4 5	261				
0·6 „ .	31	5·5	0·9	115	30	4 2	2 7	266	31	5 6	0 9	322	30	6 1	0 7	250	30	6 2	4 5	259				
0·9 „ .	31	5·5	0 8	175	30	4 4	3·0	262	31	4 7	1 6	276	30	5 3	1·4	276	30	5 6	3.7	259				
1·5 „ .	31	5 5	2·4	252	30	5 3	4 1	260	30	4 4	3 3	255	30	5 3	3 3	274	30	5 8	4 2	259				
2·1 „ .	31	6 5	5 3	260	30	6 5	5 5	266	30	5 9	4 7	267	29	6 3	5·0	278	29	7 3	6·7	274	27	1 7	0 5	161
3·0 „ .	28	9 2	8 3	271	29	9 4	8 1	278	30	8 6	7 2	271	26	11 1	10 5	285	19	8 0	7 0	288	27	3 2	2 3	150
3 6 „ .	26	11·6	9 0	281	27	11 4	10·4	278	18	9 9	8 9	280	17	12 9	11 9	290	14	10 7	10·0	282	27	5 6	4 4	157
4·5 „ .	25	13 3	12 1	288	26	12 7	11 7	275	10	11 5	10 0	274	9	11 7	11 1	285	11	3·5	3 3	286	27	7 1	3 3	192
5·4 „ .	19	15·2	14 2	285	24	15 5	14 9	276					2	8 5	7·1	307	1	12 0	12 0	315	27	9 2	6 0	224
6·0 „ .	19	18 6	17 5	280	22	17 9	17·4	275					1	11 0	11 0	250					26	11 2	8 3	233
7·2 „ .	10	20 7	20·1	273	15	22 6	21·8	269													26	14 6	11 2	250
9·0 „ .	3	30·7	28 3	278	4	32.0	31 1	256													23	19 3	15 4	259

Station	SRINAGAR				TIRUCHCHIRAPPALLI												TRIVANDRUM							
Time in I. S. T.	1730*				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	27	1·9	0 9	202	31	1 9	0 3	032	31	3 1	2 9	087	31	3 9	3 0	116	31	1·1	0 9	352	31	1 8	1 3	290
0·15 a. g. .	27	2·4	1 1	328	31	4 8	1 2	060	31	4 7	4 3	087	31	6 4	4 8	123	31	4 2	3 2	349	31	3·5	2·7	285
0·3 a. m. s. l. .					31	4 8	1·6	092	31	4 8	4 4	090	31	6 8	5 2	124	31	4 3	3 2	340	31	3·9	2·7	284
0·6 „ .					30	5 1	2 4	101	31	4 7	4 1	095	31	6 2	4 6	125	31	4 2	2 8	325	31	2·6	1·9	299
0·9 „ .					27	4 6	1 9	111	31	4 5	3 8	096	31	5 6	3 8	104	31	3 6	2·2	333	30	2 6	1 6	347
1·5 „ .					27	4 6	3 0	090	31	5 0	3 6	077	31	5 4	4 3	079	31	4·6	3 4	045	21	4·2	3 2	055
2·1 „	27	2 1	0 9	343	25	6 0	5·0	066	31	5 7	4 5	057	31	5 6	4 6	062	31	6 3	5 4	061	14	6·6	6·4	071
3·1 „	27	4 4	3 0	143	24	7 7	6 7	048	30	6 5	4 8	034	29	6 4	5 5	038	31	6 5	5 6	057	12	8 3	7·5	068
3 6 „ .	27	5·4	4 0	157	24	6 7	5·5	046	28	6 0	4 2	022	27	4 7	3 6	037	31	5 3	3 9	069	11	5 7	5 1	080
4·5 „ .	27	7 2	5 2	187	24	4 9	2 8	072	27	4 1	2 1	048	20	5 1	3 4	0 3	31	4 9	2·6	082	10	5 6	5 1	070
5·4 „ .	27	9 8	5 7	222	23	5 6	2 7	069	25	4.1	1 6	089	10	5 7	3 0	083	31	5 2	2 6	082	10	6 1	5 5	078
6.0 „ .	27	10 9	6 9	246	21	5 4	1 5	085	23	5 1	0 8	088	7	6 0	4 0	074	31	5 0	2·7	059	9	5 2	3 6	083
7·2 „ .	26	14 7	8·7	248	14	7 4	1 2	324	16	5 7	1.6	193	1	9·0	9 0	095	31	7·4	1·0	053	9	8 0	3 1	109
9·0 „ .	26	19 0	13 5	268	9	9·2	6 8	252	11	10 6	7 7	244					31	7·6	2 3	156	6	11·3	5·1	181

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 0 Km above mean sea level

March, 1965 (Phalguna 10, 1886 Saka—Chaitra 10, 1887 Saka)

Station	TRIVANDRUM								UDAIPUR												VENGURLA			
Time in I S T	1730*				2330				0530				1730				2330				0530			
Ht in Km	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3 1	2 6	261	31	1·4	0 9	329	31	C A L M			31	0 8	0 7	240	31	0 2	0 1	272	31	0·6	0 6	355
0 15 a g	31	5 3	4 7	266	31	4·0	2 9	317	31	2 6	1 2	310	31	4 8	2 9	258	31	3 7	1 9	310	31	4 3	3·1	003
0 3 a m s l	31	5 6	4 8	266	31	4.0	2 8	305													31	5 4	4 2	357
0·6 ,,	31	5 0	3 3	264	31	4.1	3 3	312													31	6·4	5 8	353
0·9 ,,	31	3 7	0.9	323	31	3 9	2 9	343	31	4 2	1 3	315	31	5 7	3 6	260	31	4 9	2 5	302	31	8 0	7·6	346
1·5 ,,	31	6 0	4 7	047	30	4 6	3 4	034	31	7 1	3 5	276	31	5 9	4 0	258	31	6 0	3 7	282	31	6 3	4 1	334
2·1 ,, .	31	7 8	7 3	050	29	6 2	5 0	055	31	8 0	6 1	265	31	5 7	4 2	264	31	6 0	4 0	263	31	5 0	0·4	094
3 0 ,, .	31	6 8	5 7	051	23	6 3	5 5	067	31	10 7	8 6	260	31	7 5	6 4	268	30	8·4	6 6	260	28	5 3	3·1	156
3 6 ,, .	31	5.8	4.1	060	17	5 3	3 8	074	31	11 1	9 5	260	31	9 3	8·1	270	24	9 4	7 6	270	4	3 3	1·4	248
4 5 ,, .	31	5 3	2 6	072	6	5 8	1 1	116	30	12 7	11 2	265	30	12 8	11 2	274	12	6 7	6 1	274				
5 4 ,,	31	5 1	3 1	064	3	4 3	3 9	090	29	15 1	13 8	263	29	15 6	14 5	276	1	5 0	5 0	294				
6·0 ,, .	31	5 3	1 7	055	1	7 0	7 0	135	28	15 9	14 6	267	28	16 9	15 4	278								
7 2 ,,	31	7 3	2 1	042					23	18 7	17 8	273	21	19 1	17 3	279								
9·0 ,,	31	7 3	2 3	203					15	24 5	22 9	275	9	21 3	20·4	273								

Station	VENGURLA								VERAVAL												VIJAYAWADA/ GANNAVARAM			
Time in I S T	1730				2330				0530				1730				2330				0530			
Ht in Km	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3 1	2·9	280	31	0 7	0 7	350	31	3 8	2 8	332	31	7 4	6 8	286	31	4·4	3 7	304	31	1 6	1 1	101
0·15 a.g.	31	5 3	4 9	294	31	4 4	4 2	343	30	9 5	7 8	337	31	7 4	7 0	280	31	8 2	6 8	315	31	4 1	3·5	162
0·3 a m.s.l.	31	5 2	4 7	299	31	6 1	5 7	339	30	9 6	7 5	334	31	7 8	7 1	282	31	8 9	7 3	319	31	5·3	4·8	167
0·6 ,,	31	4·9	3 8	319	31	6 2	6 2	339	30	9 0	6 2	332	31	6 7	5 5	295	31	8.2	6 2	317	31	6 9	6·5	166
0·9 ,,	31	4 6	3 5	323	31	6 7	6 4	333	30	8 1	4 5	329	31	6·2	5 0	307	31	7 1	4 3	319	31	7 0	6 1	164
1·5 ,,	31	4·3	2 9	331	31	5·6	4 7	308	28	6 9	2 0	312	31	6 5	3 9	312	31	6 6	3 1	302	28	6 0	3·8	140
2·1 ,,	31	4 5	0·9	350	31	5·0	0 4	279	29	8 0	3·3	257	31	7 2	3 9	298	31	7·8	3 5	290	26	5 5	1·9	075
3·0 ,, .	30	5·1	0·9	112	31	6·3	3 0	118	25	8·8	4 3	259	31	8·5	5 7	283	30	7·9	4 2	274	23	6 8	4·9	342
3·6 ,, .	29	4 7	0 3	291	12	5·9	3·8	112					31	8·4	6·8	285	16	7 5	5 2	279	21	6 2	4.6	329
4·5 ,, .	28	5·7	3·7	286									31	11·7	10·5	281	9	7·8	6·6	301	20	6.1	5·0	275
5·4 ,, .	27	8·0	6·2	290									31	15·1	14 5	281	5	12 0	11 4	280	19	8·8	7·4	267
6·0 ,, .	27	9 0	6.9	284									31	17·9	17 3	279	3	13 7	13.7	291	18	9.8	8·4	269
7·2 ,, .	26	11.6	9 4	285									30	22 6	21·3	277					18	12·5	10 9	265
9·0 ,, .	10	16.5	14 1	284									16	30.6	28 3	277					15	20·2	18.9	259

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km above mean sea level

March, 1965 (Phalguna 10, 1886 Saka/--Chaitra 10, 1887 Saka)

Station	VIJAYAWADA/GANNAVARAM								VISHAKHAPATNAM															
Time in I S T.	1730				2330				0530*				1130				1730*				2330			
Ht in Km	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	4 0	3 6	139	31	2 1	1 8	154	31	2 4	1 6	304	31	2 9	2 6	183	31	2 6	1 7	240	31	2 6	2 3	244
0 1 b a g .	31	4 5	4 3	146	31	5 5	5 3	162	31	5 0	3 7	306	31	4 5	3 9	194	31	4 3	2 9	252	31	5 0	4 6	237
0 3 a m s l	31	4 7	4 4	151	31	5 7	5 5	162	31	4 7	3 5	274	31	4 6	3 7	198	31	5 0	3 6	232	31	5 2	4 8	227
0 6 ,,	31	4 4	4 0	156	31	5 2	4 9	162	31	5 1	4 2	227	31	3 8	3 0	224	31	6 2	4 9	211	31	6 1	5 7	224
0 9 ,,	31	3 8	3 2	154	30	4 7	3 7	154	31	5 1	3 5	215	30	3 5	2 1	212	31	6 0	3 8	208	28	5 5	4 7	210
1 5 ,, .	31	4 5	2·2	141	30	4 7	2 1	128	31	4 5	1 6	226	30	3 8	1 0	186	31	4 6	0 6	245	25	3 1	1 7	200
2 1 ,, .	31	6·0	1 6	073	30	5 2	1 4	056	31	7 1	1 8	327	29	5 1	1 5	013	31	5 0	2 0	355	23	4 3	0 6	062
3 0 ,, .	30	6 9	4·3	358	29	5 5	2 7	354	31	7 2	4 3	336	27	6 5	4 5	339	31	7 8	5 8	335	22	4 9	3 7	354
3 6 ,,	30	6 5	4·0	338	27	5 3	3 5	315	31	7 6	6 3	321	26	6 9	5 2	318	31	9 5	7 1	335	11	6 6	6 0	347
4 5 ,,	8	7 6	6 5	281	25	7 2	6 1	281	31	9 3	8·1	284	23	8 0	6·6	280	31	9 7	8 7	286	3	6 7	5 3	271
5 4 ,,	26	9 8	8·7	279	12	9 0	8 2	266	31	12 9	11 6	277	23	10 9	9 7	277	30	11 9	11 8	274	1	5 0	5 0	255
6 0 ,,	27	10 1	9 0	275	8	9 5	8 3	262	31	14 9	13 6	270	23	12 3	11·4	275	30	13 9	12 5	271				
7·2 ,,	24	13 1	11 3	266					31	17 3	15 5	270	17	14 5	14 0	269	29	18 4	16 4	268				
9 0 ,,	17	17·9	16 4	260					28	25 8	24 3	268	11	21 4	20 5	255	29	26 0	23 7	265				

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9 0 Km above mean sea level

March, 1965 (Phalguna 10, 1886 Saka—Chaitra 10, 1887 Saka)

Ht in Km	n	V	v	D
AHMADABAD				
0530 hr *				
10 5	12	39 8	38 2	280
12 0	10	42 8	39 1	280
14 1	4	38 5	37 3	269
16 2	1	50 0	50 0	270
1130 hr.				
10 5	3	33 0	31 2	257
12 0	1	46 0	46 0	246
1730 hr *				
10 5	21	37 2	35 2	284
12 0	10	33 1	31 5	287
14 1	2	44·5	38 7	245
ALLAHABAD/ BAMHRAULI				
0530 hr *				
10·5	21	44 4	42 7	257
12 0	15	41 9	39 7	261
14 1	9	34 4	33·3	265
16 2	3	29 3	28 5	249
1130 hr.				
10 5	2	29 5	28 9	282
1730 hr *				
10 5	21	46 4	43 3	257
12 0	15	41 1	39 3	256
14·1	6	33 7	32 6	260
16 2	2	33 5	33 5	253
18·0	1	20 0	20 0	271
21·0	1	6 0	6 0	267
ANANTAPUR				
0530 hr.				
10·5	2	5 5	5 4	282
12 0	2	9 0	9 0	277
1730 hr.				
10·5	1	14·0	14 0	279
ASANSOL				
0530 hr.				
10·5	1	36 0	36·0	266
BANGALORE				
0530 hr @				
10·5	28	12 0	8 2	230
12 0	25	12·2	9 4	284
14 1	22	10·0	8·2	268
16 2	15	7 6	5 5	276
18 0	13	5 0	2 2	238
21 0	9	5 7	3 8	286
24 0	3	9 0	4 7	241
1130 hr				
10 5	15	12 9	10 5	243
12 0	13	14 2	11 4	248
14 1	10	15 8	11 5	253
16 2	7	8 4	7 2	269
18 0	5	8 4	7 4	255
21 0	1	7 0	7 0	315
24 0	1	8 0	8 0	280
27 0	1	4 0	4 0	160
1730 hr @				
10 5	24	11 7	10 8	234
12 0	24	12 6	10 9	246
14 1	22	10 8	7 9	261
16 2	18	5·4	2 9	282
18 0	15	5 7	1 9	216
21 0	8	7·2	4 8	274
24 0	1	4 0	4 0	020
BEGAMPET				
0530 hr				
10 5	5	24 4	21.7	265
12 0	3	21 0	18 7	242
14 1	1	26 0	26 0	210
16 2	1	24 0	24 0	200
1730 hr				
10 5	7	26 6	25 9	244
12 0	3	26 0	25 3	237
BHOPAL/ BAIRAGARH				
0530 hr				
10 5	1	27 0	27 0	290
BHUJ/ RUDRAMATA				
0530 hr.				
10 5	3	42 7	37 2	287
12·0	1	50 0	50 0	245
1730 hr.				
10 5	1	38 0	38 0	345
BOMBAY/ SANTACRUZ				
0530 hr *				
10 5	31	31 1	28 6	261
12 0	29	31 1	28 7	259
14 1	20	27 5	26 1	255
16 2	12	21 4	22 2	263
18 0	4	26 3	25 1	246
21 0	2	39 0	38 9	245
1130 hr				
10 5	17	31 1	28 9	266
12 0	14	33 7	30 3	266
14 1	9	33 3	32 3	276
16 2	4	23 7	23 7	262
18 0	1	16 0	16 0	295
1730 hr *				
10 5	28	30 5	27 8	265
12 0	27	32 0	29 4	264
14 1	16	31 0	30 5	265
16 2	8	29 5	27 2	263
18 0	2	29 5	26 5	281
CALCUTTA/ DUM DUM				
0530 hr *				
10 5	26	39 5	37 7	262
12·0	24	38 9	37 1	253
14 1	21	30·2	29 3	258
16 2	16	25 4	24 4	264
18 0	7	20 0	18·8	267
1130 hr				
10 5	1	26·0	26 0	295
1730 hr *				
10 5	26	38 3	35 5	257
12 0	23	40 1	38 9	257
14 1	19	36 6	35 5	260
16 2	16	31·8	30 7	265
18 0	7	20 6	19·4	261
21 0	2	9·0	8 0	232
COCHIN/ WILLINGDON†				
1730 hr.				
10 5	2	6 0	4·5	336
DIBRUGARH/ MOHANBARI				
1130 hr				
10 5	4	43 0	42 0	268
12 0	3	61 6	59 0	265
GADAG				
0530 hr				
10 5	22	17 2	14 5	254
12 0	21	16 5	15 1	254
14 1	14	16 0	14 5	272
16 2	5	4 8	2 3	285
18 0	3	16 3	15 8	270
21 0	2	2 5	2 0	032
1730 hr				
10 5	11	19 3	17 0	261
12 0	9	18 2	17 4	272
14 1	5	18 2	16 8	274
16 2	1	24 0	24 0	280
18 0	1	20 0	20 0	265
21 0	1	6 0	6 0	295
GANGTOK				
1730 hr				
10 5	1	47 0	47 0	286
GAUHATI				
0530 hr. *				
10 5	18	45·6	43 3	261
12 0	9	34 3	32 5	258
14 1	4	34 0	33·3	259
16 2	1	21 0	21·0	249
1730 hr *				
10 5	20	44 7	42 3	263
12 0	16	45 0	43 5	264
14 1	9	36 0	34 9	259
16 2	4	32 7	26·7	294
18·0	2	39 0	38 7	285
JAGDALPUR				
0530 hr				
10 5	1	23 0	23 0	270
1730 hr.				
10 5	2	28·5	27 2	290
12·0	1	35·0	35 0	295
JHARSUGUDA				
1730 hr				
10 5	1	45 0	45 0	305
12 0	1	42 0	42 0	294
JODHPUR				
0530 hr *				
10 5	21	42 6	39 5	270
12 0	17	40 2	38 4	268
14 1	5	37·2	36 5	278
16 2	2	24 5	22 5	252
1130 hr.				
10 5	7	43 9	42 0	273
12 0	3	43 3	42 4	273
1730 hr. *				
10 5	23	40 6	39·1	271
12 0	18	44 9	43 7	265
14 1	4	46 3	38·5	271
16 2	2	31 0	30·9	267
18 0	1	9·0	9 0	095
LUCKNOW/AMAUSI				
1730 hr.				
10 5	3	28 3	26·0	279
12 0	1	27·0	27·0	290
MADRAS/ MINAMBAKKAM				
0530 hr *				
10 5	31	12·1	9·8	243
12 0	31	11·5	9·5	245
14·1	29	10·1	8 2	258
16 2	23	6 5	4·2	265
18·0	19	5·4	3 0	282
21 0	9	7 0	6 7	266
24·0	4	6·3	4 8	325
1130 hr.				
10·5	15	13·4	11·1	212
12·0	12	12 6	9·4	239
14·1	4	10·0	7·3	236
16·2	2	4 5	2·5	187
18 0	1	5·0	5·0	170
21·0	1	7·0	7 0	330
24 0	1	23 0	23 0	265

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G.M.T

March, 1965 (Phalguna 10, 1886 Saka—Chaitra 10, 1887 Saka)

Standard Pressure Surface mb.	AHMEDABAD Surf Pr (1004 mb)						ALLAHABAD/BAMHRAULI (999 mb)						BANGALORE (911 mb)					
	No. of Obs.	Ht gpm	Temperature °A				No of Obs	Ht gpm	Temperature °A				No of Obs	Ht gpm	Temperature °A			
			Mean	Max	Min	Dew point			Mean	Max	Min	Dew point			Mean	Max	Min	Dew point
Surface	31	055	293 0	300	286	282 8	31	098	289 6	298	285	282 7	31	921	292 0	295	289	287 9
1000	31	091	293 5	300	288	282 6	31	092	287 9	291	285	280 7	31	0114				
900	31	1010	294 3	300	288	275 0	31	999	292 2	297	287	275 6	31	1023	292 5	295	291	286 7
850	31	1502	291 1	295	285	271 8	31	1487	288 9	294	283	272 2	31	1517	292 1	295	287	282 8
800	31	2018	287 6	294	284	269 4	31	1998	284 9	290	279	271 1	31	2035	289 3	293	285	279 3
700	31	3130	279.5	284	276	262 4	31	3102	277 0	281	272	263 6	31	3155	281 5	284	277	273 8
600	31	4374	271 1	275	268		31	4336	267 8	273	262		31	4415	275 2	279	272	264 9
500	31	5799	261 6	265	257		31	5742	258 5	262	254		31	5866	267 2	271	261	
400	31	7475	250 4	255	244		31	7395	247 0	251	242		31	7581	256 1	261	251	
300	31	9530	237 0	242	232		31	9428	234 7	241	227		31	9681	241 1	245	234	
250	31	10775	229 5	233	225		31	10665	228 3	235	221		31	10977	231 8	237	227	
200	31	12252	221 5	229	217		30	12135	221 8	228	214		31	12427	220 3	228	213	
175	28	13096	216 6	227	211		27	12993	218 1	224	211		28	13287	215 0	223	208	
150	27	14061	211 5	225	204		26	13979	214·1	219	208		28	14239	209 1	219	203	
125	27	15180	206 4	217	200		25	15107	209 2	217	201		21	15349	204 3	209	196	
100	25	16520	200 8	209	193		20	16458	204 8	212	197		21	16665	199 7	206	195	
80	20	17839	200 5	209	195		10	17771	202 9	211	198		17	18012	200 9	209	193	
70	18	18625	203 1	209	196		7	18605	206 4	213	201		17	18737	203 0	210	195	
60	15	19584	206 3	214	197								15	19722	205 1	211	200	
50	10	20698	211 5	219	207								14	20799	207 3	213	203	
40	7	22064	214 9	219	211								7	22222	213 3	218	210	
30	5	23870	217 8	221	216													
20																		
10																		

	BOMBAY/SANTACRUZ (1009 mb.)						CALCUTTA/DUM DUM (1010 mb)						GAUHATI (1006 mb)					
Surface	31	013	293 6	296	291	290 4	31	006	292 4	297	287	290 9	31	049	289 3	293	286	286 7
1000	31	091	295 5	299	293	290 4	31	095	293 0	297	289	290 0	31	100	290 3	295	286	285 7
900	31	1009	295 4	300	293	281 6	31	1008	293 3	299	289	279 4	31	1005	291 7	297	287	278 3
850	31	1508	292 8	297	287	277 3	31	1500	289 9	296	286	275 8	31	1490	288 3	294	284	275 5
800	31	2028	289 5	293	286	276 8	31	2014	285 9	294	282	273 4	31	2001	284 5	290	281	273·5
700	31	3150	281 4	284	277	272 1	31	3122	278 0	284	272	266 6	31	3101	276 5	280	270	265 5
600	31	4408	273 3	279	268	265 3	31	4363	270 7	275	263		30	4334	269 5	273	262	
500	31	5857	265 5	270	258		31	5789	262 4	270	255		30	5752	261 1	265	255	
400	31	7556	254 2	259	248		31	7475	252 3	257	246		30	7425	250 3	256	244	
300	31	9642	240 4	246	234		31	9549	238 9	245	230		30	9481	238 2	244	225	
250	31	10903	231 5	236	227		30	10806	231 6	238	225		30	10735	231·7	239	225	
200	31	12380	220 8	225	214		30	12295	223 4	232	214		30	12229	224 8	235	217	
175	28	13252	215 4	220	208		30	13163	218 7	228	210		27	13096	220 3	230	211	
150	27	14200	210 1	215	203		29	14137	212 9	224	205		23	14098	216·3	225	206	
125	27	15323	204 2	209	197		29	15262	207 5	217	199		19	15246	212·0	219	201	
100	24	16625	200 6	209	193		29	16610	203 1	220	195		12	16635	208 3	214	203	
80	16	17898	200 0	212	192		14	17908	201 8	210	196		7	17994	206 3	213	203	
70	11	18734	201 7	209	194		9	18680	203.7	209	199							
60	9	19724	206 7	215	201		7	19634	206 7	217	201							
50	8	20853	211.5	219	202		7	20749	212 0	221	203							
40	6	22241	213·3	221	204		5	22155	215 4	224	211							
30																		
20																		
10																		

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G.M.T.

March, 1965 (Phalguna 10, 1886 Saka—Chaitra 10, 1887 Saka)

Standard Pressure Surface mb	JODHPUR Surf Pr (985 mb)						MADRAS/MINAMBAKKAM (1009 mb)						NAGPUR/SONEGAON (975 mb)					
	No of Obs.	Ht 9pm.	Temperature °A				No of Obs	Ht. gpm	Temperature °A				No of Obs	Ht gpm	Temperature °A			
			Mean	Max	Min	Dew point			Mean	Max	Min	Dew point			Mean	Max	Min	Dew point
Surface	30	218	291 2	298	287	279 1	31	015	296 9	300	294	295 2	31	311	292 8	298	286	282 3
1000	30	091					31	098	297 0	300	294	295 0	31	091				..
900	30	1000	292 9	301	285	275 6	31	1016	294 3	299	290	286 5	31	1006	295 6	301	291	281·5
850	30	1488	289 7	298	280	273 0	31	1511	292 4	296	288	279 9	31	1502	292 7	297	291	279 3
800	30	2000	285 6	292	277	268 4	31	2031	289 5	293	287	277 0	31	2021	288 5	295	286	277 6
700	30	3101	277 5	282	271	262 7	31	3153	282 5	292	279	271 6	31	3140	279 7	285	275	272·8
600	30	4339	268 5	273	264		31	4415	275 2	279	273	263 3	31	4389	271 0	275	269	.
500	30	5744	258 4	264	251		31	5869	267 6	272	263		31	5820	262 9	268	258	.
400	30	7402	247 3	254	241	.	31	7584	256 0	261	252		31	7505	252 7	266	247	.
300	29	9426	233 7	240	227	.	31	9686	241 1	249	235		31	9578	238 8	245	233	..
250	29	10657	227 9	232	221	.	31	10951	231 6	238	224		31	10833	230 3	237	221	..
200	29	12128	221 8	227	214	..	31	12434	220 7	225	201		31	12311	220·6	225	215	..
175	29	12987	218 2	225	209	..	29	13276	215 3	222	209	.	30	13169	215·3	219	211	..
150	29	13977	213 6	219	205	.	29	14251	208 8	214	203	.	29	14122	210·3	215	205	.
125	26	15092	209 2	220	199		28	15347	203 3	209	197		29	15228	205 3	209	198	..
100	23	16454	206 2	211	199	.	26	16675	198 5	206	191	..	26	16558	200 7	208	197	..
80	17	17781	204 1	209	197	..	22	17967	199 4	207	193		23	17882	200·8	207	195	..
70	15	18580	206 6	213	199		20	18764	202 3	212	196	.	20	18666	202 3	209	196	..
60	10	19583	210 7	216	202		17	19705	205 5	214	201	..	17	19584	206 3	214	201	..
50	8	20785	215 1	222	208		15	20808	210 5	223	202	.	13	20679	210 6	219	204	..
40							9	22232	213 3	226	205	.	5	22085	216 6	223	212	..
30							8	24023	217 3	226	209							
20																		
10																		

	NEW DELHI/SAFDARJUNG (986 mb)						PORT BLAIR (1002 mb)						SRINAGAR (843 mb)					
Surface	31	209	288 6	297	282	281 6	31	079	296 3	299	293	294 8	27	1588	276 6	281	272	275·1
1000	31	091		.	.	.	30	093	296 4	299	294	294 8	27	177			.	..
900	31	994	291 4	298	284	273 2	30	1010	293 6	297	291	287 1	26	1049	..	.	..	.
850	31	1480	287 8	294	281	268 8	30	1502	291 0	293	288	283 0	27	1517	..			..
800	31	1990	284 2	291	278	266 0	30	2018	287 8	291	284	280·0	27	2009	275 0	280	271	272·8
700	31	3087	276 0	282	270	259 4	30	3137	282 3	286	279	273 0	27	3077	269 4	275	265	..
600	31	4315	267 1	275	262		30	4400	275 6	280	270	266 1	27	4284	262 3	268	256	.
500	31	5715	257 0	263	252	.	30	5855	267 6	272	263		26	5665	252 3	259	247	.
400	31	7355	244 3	251	238	.	30	7570	256 7	263	251		25	7268	241 1	248	233	.
300	31	9357	230 5	238	226	.	30	9673	241 4	247	234	.	22	9239	227 0	232	221	.
250	31	10573	225 3	234	219	.	29	10937	231 6	239	226	.	21	10435	220 6	227	215	..
200	31	12036	222 0	229	217	.	27	12412	219 9	227	215		19	11871	218 9	226	214	..
175	31	12900	219 5	228	214	.	25	13260	214 6	220	209	.	19	12732	220 6	226	215	..
150	31	13882	215 6	221	209	.	23	14223	208 7	214	205		18	13719	219 9	226	215	.
125	31	15021	211 3	217	205	.	19	15315	202 1	208	195		16	14882	218 4	225	213	.
100	31	16389	207 6	214	201	.	17	16625	197 1	205	189	.	13	16328	217.2	226	209	..
80	28	17754	206 7	213	199	.	8	17991	198 3	203	195	.	8	17726	216 6	222	208	.
70	24	18585	207 4	213	202	.	7	18710	198 7	203	195	..	6	18592	217 0	222	210	..
60	21	19520	210·2	217	205	.							5	19628	218.6	226	212	..
50	20	20645	214·2	221	209	.												
40	13	22081	218·3	225	213	.												
30	7	23991	222·6	229	217	.												
20																		
10																		

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G M.T

March, 1965 (Phalguna 10, 1886 Saka—Chaitra 10, 1887 Saka)

Standard pressure surface mb	JODHPUR Surf. Pr. (984 mb)						MADRAS/MINAMBAKKAM (1008 mb)						MINICOY (1010 mb)					
	No of Obs	Ht gpm	Temperature °A				No of Obs	Ht gpm.	Temperature °A				No of Obs	Ht gpm	Temperature °A			
			Mean	Max	Min	Dew point			Mean	Max	Min.	Dew point			Mean	Max	Min.	Dew point
Surface	31	218	304 0	309	297	281 9	31	015	301 4	304	291	294 9	31	002	301 3	302	300	295 3
1000	31	075					31	085	301 3	303	291	293 7	30	093	300 5	301	299	294 0
900	31	1007	297 1	302	291	275 7	31	1013	296 9	300	293	281 4	30	1017	293 4	297	291	287 1
850	31	1501	292 3	297	286	271 9	31	1511	294 3	297	289	277 8	30	1509	291 4	294	288	281 4
800	31	2017	287 8	293	281	271 1	31	2033	290 9	294	288	275 8	30	2026	288 8	293	287	276 6
700	31	3130	278 6	284	271	263 7	31	3160	282 1	287	279	270 8	30	3146	282 0	285	279	269 7
600	30	4368	269 8	274	263		31	4428	276 3	280	267	263 2	30	4405	275 0	277	271	261 7
500	30	5784	260 4	266	254		31	5886	268 8	272	264		30	5851	266 3	269	261	
400	30	7443	249 1	256	241		31	7608	257 4	261	253		30	7555	255 3	258	251	.
300	29	9484	235 5	245	229		31	9720	243 0	247	237		30	9642	240 0	243	231	
250	29	10727	229 6	238	223		31	10995	233 7	240	228		30	10898	230 5	234	226	
200	29	12217	224 0	231	214		31	12489	222 4	228	217		30	12368	219 3	223	214	
175	28	13091	220 8	228	211		30	13364	215 9	220	199		28	13205	213 8	221	209	
150	28	14075	217 4	224	207		30	14309	209 9	214	203		27	14163	207 9	219	202	
125	25	15234	213 2	220	203		28	15407	204 5	209	197		25	15233	201 3	207	195	
100	22	16615	208 9	217	198		24	16736	199 1	212	194		22	16563	196 7	202	193	.
80	19	17983	208 8	221	198		20	18055	198 6	205	194		20	17853	197 1	203	190	
70	16	18732	211 4	218	204		18	18859	202 2	212	196		18	18647	199 9	208	191	..
60	12	19715	214 9	224	208		14	19749	203 8	208	201		12	19544	201 5	208	195	..
50	9	20917	217 8	222	212		12	20845	208 0	214	201		12	20625	203 6	210	196	.
40	..	..				.	7	22222	211 8	216	205		6	21973	207 2	212	199	..
30	.		..			..		.		.	.		..	..			..	..
20	.	.	.				.	.				.	.	..	.	.	..	..
10	.		..	.		.					.					.	.	..

	NAGPUR/SONEGAON Surf Pr (973 mb)						NEW DELHI/SAFDARJUNG (985 mb)						PORT BLAIR (1001 mb)					
Surface	31	311	306 7	311	300	282 0	31	209	300 0	305	295	282 2	31	079	300 9	303	299	295 5
1000	31	063	.				31	077					31	087	300 8	303	299	295 1
900	31	1006	299 9	304	295	282 9	31	997	294 2	301	290	274 5	31	1010	294.1	297	291	288 8
850	31	1507	295 3	298	292	280 6	31	1488	290 2	298	285	270 4	31	1502	291 3	295	288	283.5
800	31	2030	290 5	295	287	278 3	31	2000	285 9	293	281	268.2	31	2020	288 3	291	284	280 7
700	31	3152	280 7	285	277	273 9	31	3102	276 9	282	272	261 0	31	3140	282 6	287	279	272 7
600	31	4404	271 6	278	269	264 8	31	4338	267 7	272	263		30	4403	275 6	280	271	266 7
500	31	5838	263 9	271	260		31	5737	257 8	264	252		30	5858	267 4	273	261	..
400	31	7530	252 8	257	249		31	7384	245 5	253	240		29	7576	256 5	261	251	..
300	31	9606	239 0	247	231		31	9403	232 2	239	224		28	9682	241 7	245	235	.
250	31	10864	231 1	237	225	.	31	10626	226 0	235	218		28	10949	231 7	236	227	.
200	31	12341	221 6	228	217		31	12092	222 5	230	215	.	28	12427	220 0	228	216	..
175	27	13216	216 9	225	211		31	12958	220 0	227	213		28	13268	213.7	220	209	..
150	27	14179	211 6	219	205		28	13942	216 6	224	208		17	14226	207.1	213	204	..
125	24	15283	206 0	213	199		26	15085	212 8	219	208		12	15335	201 3	205	194	..
100	23	16622	201 7	207	196		23	16475	210 0	219	203	.	11	16641	195 2	202	190	..
80	22	17953	201 4	209	197		20	17832	208 8	213	203	..	8	17929	195 7	206	190	..
70	20	18750	202.3	210	197	..	19	18657	209 1	217	205	..	..	..	..	.	..	..
60	15	19693	204 7	210	199	..	16	19616	210 8	215	207	..	..	.	..	..	..	..
50	12	20778	207 7	212	201	..	13	20783	214 4	220	209	.	..	.	..	..	..	..
40	9	22203	211 3	215	207	..	6	22238	219 0	221	212	..	..	.	..	..	..	..
30	..	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	.	..	..	.	..	..	..	..	..	..
10	..	..	..	..	..	..		.	..	.	..	.	..	..	..	..	..	.

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G M T.

March, 1965 (Phalguna 10, 1886 Saka—Chaitra 10, 1887 Saka)

Standard Pressure Surface mb	SRINAGAR Surf Pr (841 mb)						TRIVANDRUM (1002 mb)						VISHAKHAPATNAM (1005 mb)					
	No of obs	Ht gpm	Temperature °A				No of Obs	Ht gpm	Temperature °A				No of Obs	Ht gpm	Temperature °A			
			Mean	Max	Min.	Dew point			Mean	Max	Min	Dew point			Mean	Max.	Min	Dew point
Surface	27	1588	284 4	289	279	277 7	31	064	303 1	304	301	295 9	31	041	301 5	303	299	295 0
1000	27	110					31	078	302 8	304	301	295 8	31	088	300 8	302	299	293 9
900	27	1016					31	1008	295 1	297	291	289 5	31	1015	296 4	299	292	282 0
850	27	1499					31	1503	291 9	295	289	286 6	31	1511	293 6	297	290	279.9
800	27	2003	279 4	285	274	272 9	31	2023	288 9	294	287	282 7	31	2032	289 9	293	287	278 9
700	27	3083	271 8	277	268	263 7	31	3147	283 3	287	279	273 2	31	3152	281 1	283	278	274 6
600	27	4295	263 3	269	260		31	4414	276 5	281	273	265 1	31	4409	274 3	277	271	265 6
500	27	5677	254 0	258	250		31	5872	268 9	273	265		31	5859	266 5	271	263	.
400	26	7302	242 1	246	236		31	7596	257 6	263	253		30	7569	255 4	260	251	.
300	26	9283	227 5	233	220		31	9708	242 2	248	239		30	9667	241 6	245	238	.
250	25	10473	220 5	229	211		31	10977	233 1	240	227		28	10934	233 2	237	230	
200	25	11908	219 8	230	210		31	12466	221 5	228	217		28	12425	222 2	227	218	.
175	22	12781	221 3	229	215		30	13316	215 3	222	210		27	13281	216 9	221	214	.
150	20	13777	220 3	230	213		29	14290	208 8	215	204		27	14250	210 6	215	206	
125	17	14963	218 8	227	211		27	15374	203 5	211	198		24	15347	204 9	208	199	.
100	14	16317	216 7	225	207		20	16704	198 7	205	192		22	16682	199 3	205	194	.
80	11	17778	216 5	226	210		13	17986	200 0	205	195		21	17968	198 3	207	191	..
70	9	18620	216 5	228	210		11	18732	203 5	210	197		17	18759	199 6	209	192	.
60	8	19568	216 5	222	208		10	19704	206 3	212	200		14	19674	203 6	213	197	..
50	8	20731	218 6	224	209		9	20807	208 6	215	202	.	10	20761	207 6	214	204	
40	5	22357	219 2	225	216		6	22199	212 5	217	206							
30																		
20																		
10																		

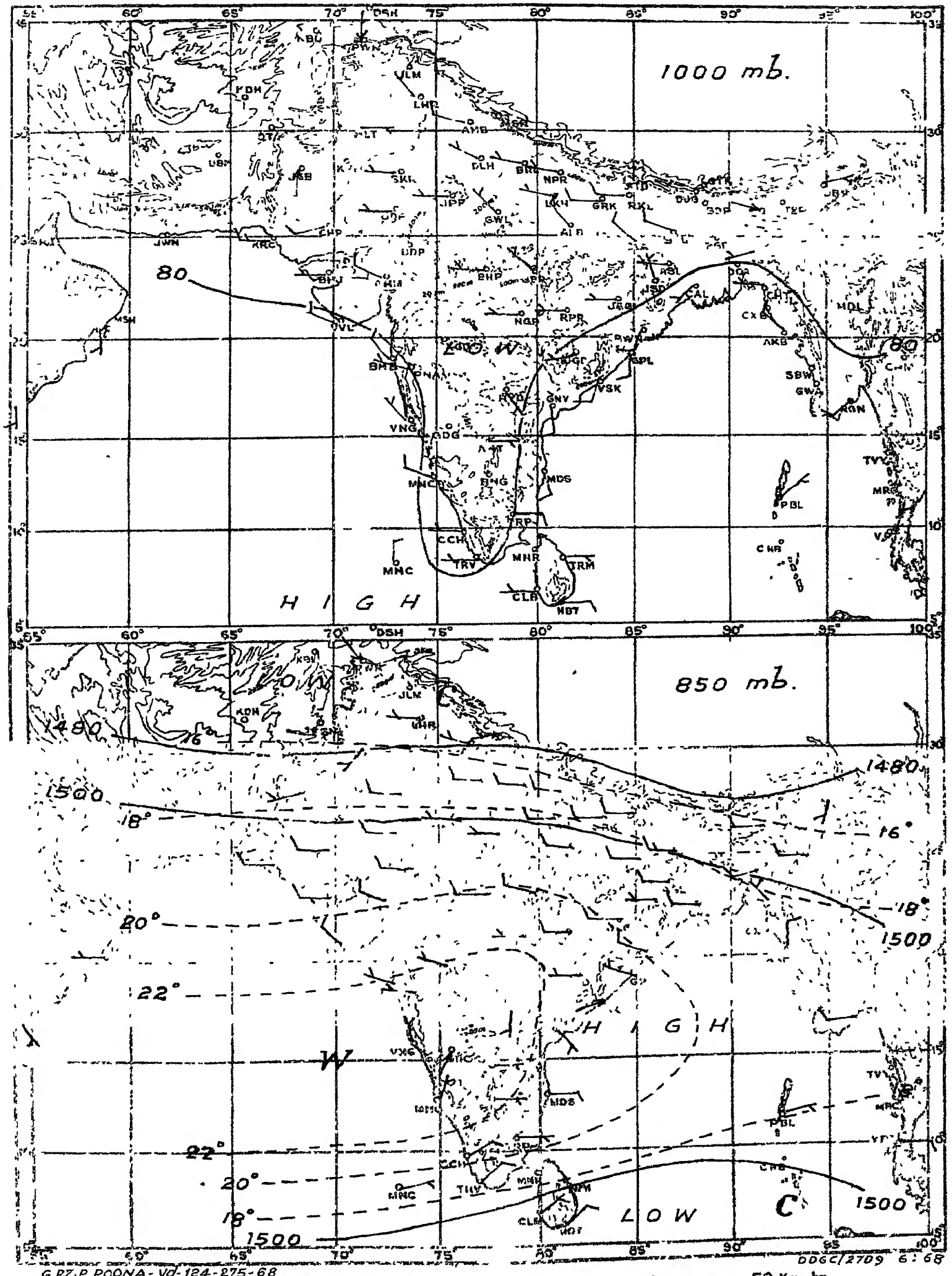
Note Number of observations refer to those of dynamic height Means are not worked out for temperature and dew point for the 1,000 mb surface and for dew point for standard pressure surfaces with temperature less than 273°A Means are not worked out for less than five observations at standard pressure surfaces.

GIPN—S1—6 D.D.G. Obs. P/68— 20-3-69—260

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I Met.D. — Plate I

MARCH 1965



G PZ.P POONA - Vd-124-275-68

RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots

---------- Isotherms in degrees centigrade ———— Contours in geopotential metres.

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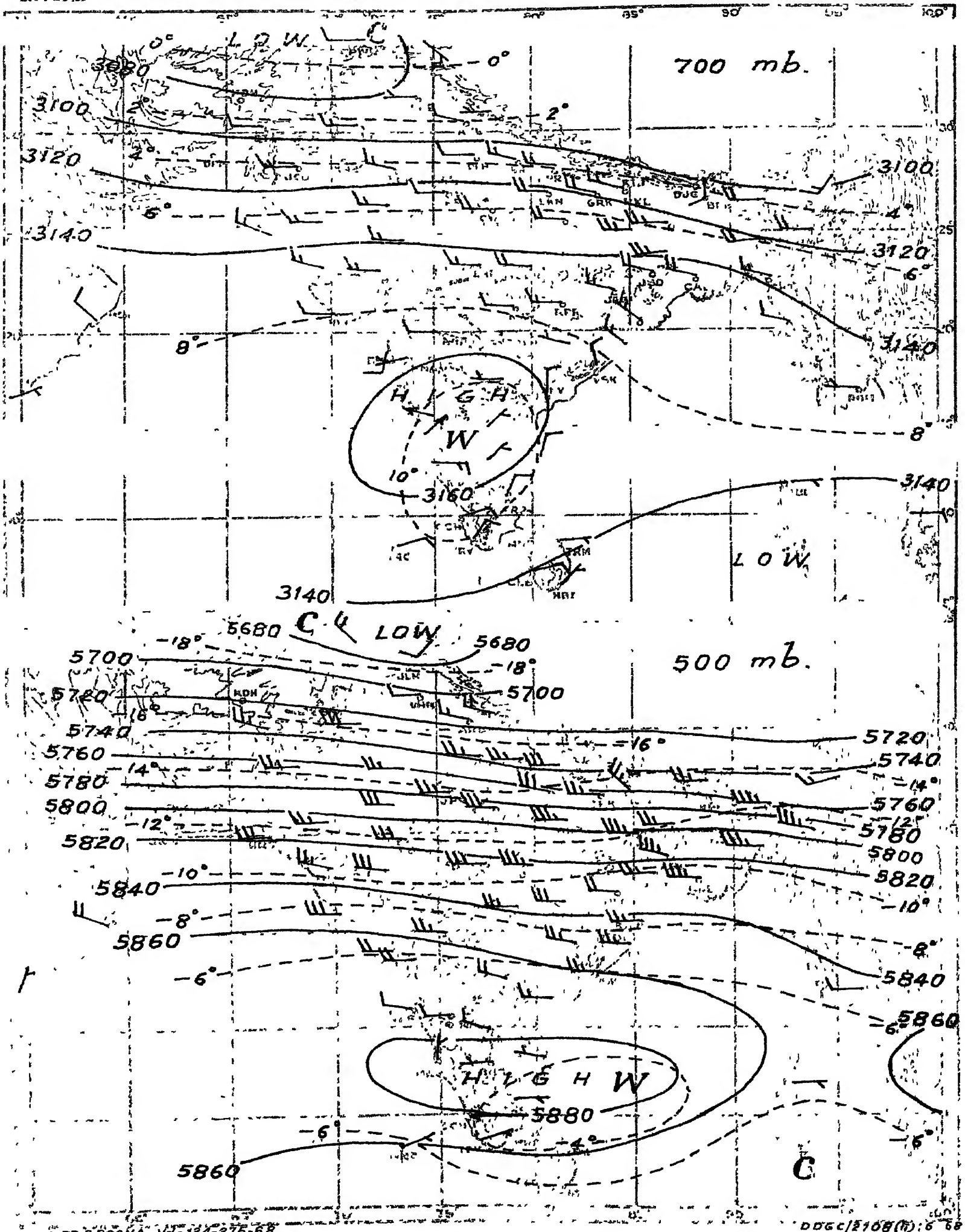
MONTHLY MEAN CONSTANT PRESSURE CHARTS

MARCH 1965

Plate II



GPZ PPOONA-Vd-124-275-68

DDGc/2108(R):6-68

RESULTANT WIND —— 5 Knots ····· 10 Knots - - - 50 Knots

—— Isotherms in degrees centigrade - - - - Contours in geopotential metres